



No. 33

16 AUGUST 2003



UNITED STATES OF AMERICA

# NOTICE TO MARINERS



Published Weekly by the  
National Imagery and Mapping Agency

Prepared Jointly with the  
National Ocean Service and U.S. Coast Guard

## Contents

### Section I

Chart Corrections . . . . .	I-1.1
Chartlets / Depth Tabulations / Notes . . . . .	I-2.1
Charts Affected by Notice to Mariners . . . . .	I-3.1

### Section II

NIMA Hydrographic Products Catalog Corrections . . . . .	II-1.1
Navigation Publications Corrections . . . . .	II-2.1
USCG Light List Corrections / Radiobeacon Corrections . . . . .	II-3.1
NIMA List of Lights / Radiobeacon / DGPS Corrections . . . . .	II-4.1
Publications Affected by Notice to Mariners . . . . .	II-5.1

### Section III

Broadcast Warnings / MARAD Advisories / Special Warnings . . . . .	III-1.1
Marine Information . . . . .	III-2.1

**Visit the Maritime Safety Information Division website at  
<http://pollux.nss.nima.mil/>**



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## IMPORTANT INFORMATION

The Notice to Mariners is published by the National Imagery and Mapping Agency (NIMA), under the authority of Department of Defense Directive 5105.40, to advise mariners of important matters affecting navigational safety, including new hydrographic discoveries, changes in channels and navigational aids, etc. (U.S. Code Title 10, Sec. 442 and Title 44, Sec. 1336 refer). Nothing in the arrangement of information implies endorsement or acceptance by NIMA in matters affecting the status and boundaries of States and territories. The Notice to Mariners presents corrective information affecting charts, NIMA Hydrographic Products Catalog, Coast Pilots, Sailing Directions, Fleet Guides, USCG Light Lists, NIMA List of Lights, Radio Navigational Aids and other products produced by the National Imagery and Mapping Agency, National Ocean Service and U.S. Coast Guard.

Information for the Notice to Mariners is contributed by the following Agencies: National Imagery and Mapping Agency (NIMA) (Department of Defense) for waters outside the territorial limits of the United States; National Ocean Service (NOS) (Department of Commerce), which is charged with the surveys and charting of the coasts and harbors of the United States and its territories; the U.S. Coast Guard (USCG) (Department of Transportation), which is responsible for the safety of life at sea and the establishment and operation of aids to navigation; and the U.S. Army Corps of Engineers (Department of Defense), which is charged with the improvement of rivers and harbors of the United States. In addition, important contributions are made by foreign hydrographic offices and cooperating observers of all nationalities.

For further information concerning NIMA hydrographic products and services, including the Maritime Safety Information Website, users may contact:

<u>Name</u>	<u>Telephone</u>	<u>DSN</u>	<u>FAX</u>
Maritime Safety Information Division	301-227-5006	287-5006	301-227-5745
World-Wide Navigational Warning Service	301-227-3147	287-3147	301-227-3731
Fleet Liaison Officer	301-227-3120	287-3120	301-227-4211
Maritime Safety Information Website	301-227-3296	287-3296	301-227-4211
Notice to Mariners: Regions 1 and 2	301-227-3122	287-3122	301-227-3175
Notice to Mariners: Regions 3, 4, 5	301-227-3146	287-3146	301-227-3175
Notice to Mariners: Regions 6 thru 9	301-227-3146	287-3146	301-227-3175
Sailing Directions, Fleet Guides	301-227-3183	287-3183	301-227-3174
Navigation Science Publications	301-227-3120	287-3120	301-227-3731
Distribution Issues	301-227-7652	287-7652	301-227-4211

The Maritime Safety Information Website can be accessed directly at (<http://pollux.nss.nima.mil>). For your convenience NIMA provides three e-mail addresses. For information affecting Notice to Mariners use [NavNotices@nima.mil](mailto:NavNotices@nima.mil), for information affecting Sailing Directions and all other navigational publications use [SDPUBS@nima.mil](mailto:SDPUBS@nima.mil), for information concerning the Maritime Safety Information Website, use [webmaster\\_nss@nima.mil](mailto:webmaster_nss@nima.mil).

Mariners are requested to notify NIMA of discrepancies in charts and publications, using the Marine Information Report and Suggestion Sheet at the back of this Notice to Mariners. This form should also be used to report permanent changes, additions, or deletions from charted or published information. Reports which constitute an immediate hazard to navigation should be sent to the nearest NAVAREA Coordinator via coast radio stations. All reports are greatly appreciated. Marine Information Report and Suggestion sheets received during the past week were submitted by the following observers:

<b>Observer</b>	<b>Ship/Organization</b>
LTJG Julie Welter	USS PRINCETON
QMC Amy Coppedge	USS ASHLAND

**Cover Photo:** The **USS KEARSARGE (LHD-3)** is the third in a series of seven *WASP* class multipurpose amphibious assault ships built by Ingalls Shipbuilding in Pascagoula, MS. **KEARSARGE** is the fourth ship to bear this name, with an historical lineage that dates back to the Civil War. Hers is one of only two names that Congress has mandated the US Navy will always have a ship named. Her principal mission is to embark, deploy, land and support a Marine landing force. The ship is specifically designed to accommodate Air Cushion Landing Craft (LCAC) for fast troop movement over the beach, and AV-8B Harrier aircraft to provide close-in air support for the assault force. **KEARSARGE** can also carry as many as 26 Navy/USMC helicopters for troop movement, air support and Search and Rescue Operations. The ship's extensive medical facilities include six fully-equipped operating rooms and a 600-bed hospital for combat support, as well as for humanitarian missions during peacetime. Commissioned 16 October 1993, the **KEARSARGE** is 844 feet in length, has a beam of 110 feet, a draft of 28 feet and can accommodate a crew of 1,009 sailors and 73 officers. During her recent deployment in support of Operation Enduring/Iraqi Freedom, the **KEARSARGE** served as the flagship for Commander, Amphibious Task Force EAST, and carried more than 1,700 Marines from the Second Marine Expeditionary Brigade to the Northern Arabian Gulf. The homeport of the **KEARSARGE** is Norfolk, Virginia.

INFORMATION  
OF  
SPECIAL INTEREST  
OR  
IMPORTANCE  
TO  
MARINERS

**NM 33/03**

# HYDROGRAM

**National Imagery and Mapping Agency  
Bethesda, MD 20816-5003**

SPECIAL  
ANNOUNCEMENTS

NEW PRODUCTS  
OR SERVICES

IMPORTANT  
CHANGES

**16 August 2003**

## **NEW EDITION OF LIST OF LIGHTS**

PUB. 111, 2003 EDITION, LIST OF LIGHTS, RADIO AIDS AND FOG SIGNALS FOR THE WEST COASTS OF NORTH AND SOUTH AMERICA (EXCLUDING CONTINENTAL U.S.A. AND HAWAII), AUSTRALIA, TASMANIA, NEW ZEALAND, AND THE ISLANDS OF THE NORTH AND SOUTH PACIFIC OCEANS, IS READY FOR ISSUE. SEE SECTIONS II AND III.

## EXPLANATION OF CONTENTS

The Notice to Mariners contains corrective information affecting nautical charts, the NIMA Hydrographic Products Catalog, Coast Pilots, Sailing Directions, Fleet Guides, USCG Light Lists, NIMA List of Lights, Radio Navigational Aids and other related nautical publications. The information contained in these corrections is important to safe navigation. It is the user's responsibility to decide which of their charts and publications require correction. Consult the U.S. Coast Guard Local Notice to Mariners for information pertaining to waterways within the United States that are not normally used by oceangoing vessels. Because of the sometimes transitory nature of aids to navigation, depths and port information, local area sources should be consulted whenever possible. This publication is not required to be maintained intact. Portions may be separated for correction or attachment to an affected product. The Notice to Mariners is divided into the following sections:

**Section I-1** contains corrections to nautical charts listed in numeric order by chart number. Each chart correction listed applies only to that particular chart. Related charts, if any, will have their own specific correction listed separately. Users should also refer to U.S. Chart 1 Nautical Chart Symbols, Abbreviations and Terms for additional information pertaining to the correcting of charts. The illustration below describes the elements that comprise a typical chart correction:



A chart correction preceded by:

★ indicates that it is based upon original U.S. source information.

T indicates that it is temporary in nature.

P indicates that it is preliminary, and that permanent corrective action will appear in a future Notice to Mariners.

The letter M immediately following the chart number indicates that the correction should be applied to the metric side of the chart only. The letter N is not a part of the chart number.

The letter N preceding the current Notice to Mariners number indicates that the affected chart is on Limited Distribution and is normally only for use by U.S. Navy, government-owned or -chartered vessels.

Courses and bearings are given in degrees true.

Light sectors are expressed in degrees true from the vessel TOWARD the light.

The visible range(s) listed for lights is normally the nominal range (the distance at which it can be seen in clear weather), expressed in nautical miles, except in the Great Lakes where it is expressed in statute miles.

The colors of structures and lights of navigational aids are abbreviated in accordance with Chart 1.

**Section I-2\*** contains all chartlets, depth tabulations and notes associated with the chart corrections in Section I-1. Chartlets and depth tabulations supersede all previous information portrayed.

**Section I-3** lists all NIMA and NOS charts which have been affected by Notice to Mariners and the notice numbers which have affected them since the date of the oldest Summary of Corrections or the chart's announcement, whichever is later.

**Section II-1** is a weekly listing of corrections to the NIMA Hydrographic Products Catalog, including new charts and publications. It also contains the latest price category information.

**Section II-2\*** contains corrections to navigation publications, including Sailing Directions, Coast Pilots, Fleet Guides, Radio Navigational Aids (Pub. 117), *The American Practical Navigator* and other related nautical publications.

**Section II-3\*** lists weekly updates to the USCG Light Lists.

**Section II-4\*** lists weekly updates to the NIMA List of Lights.

**Section II-5** lists all NIMA, NOS and USCG navigation publications which have been affected by Notice to Mariners and the notice numbers which have affected them since the date of the publication's announcement.

**Section III-1** lists the message number of all in-force Navigational Warnings, and the text of those warnings promulgated during the previous week. Notice to Mariners Nos. 13, 26 and 39 list a summary of all in-force Navigational Warnings for the preceding quarter. Notice to Mariners No. 52 lists a complete summary of all in-force Navigational Warnings.

**Section III-2** contains miscellaneous information of particular interest to the maritime community.

\*The left-hand pages of these sections are intentionally blank.







**24057** 4Ed. 6/29/96 LAST NM 30/03 33/03  
 Change Light to Fl R 3s 8M 34°54'48"S 56°13'22"W  
 Light to Fl G 3s 13M 34°54'48"S 56°13'35"W  
 Add Danger circle "Obstn" (PA) 35°06'30"S 55°57'48"W  
 (Plan)  
 Change Light to Fl R 3s 22m 8M 34°54'48.1"S 56°13'21.8"W  
 Light to Fl G 3s 22m 13M 34°54'48.0"S 56°13'34.5"W  
 (1/03 Montevideo; BA LL)

**37025** 26Ed. 8/9/97 LAST NM 31/03 33/03  
 Delete R Bn at light 43°23.2'N 8°24.4'W  
 (12(218)03 Cadiz)

**37033** 2Ed. 9/12/98 LAST NM 47/02 33/03  
 Delete RC at light 43°23.2'N 8°24.4'W  
 (12(218)03 Cadiz)

**37034** 2Ed. 9/12/98 LAST NM 14/03 33/03  
 Delete R Bn at light 43°23.2'N 8°24.4'W  
 (12(218)03 Cadiz)

**37150** 8Ed. 12/20/97 LAST NM 32/03 33/03  
 Add Foul ground symbol [K31] 52°44'02"N 3°21'17"E  
 (18(276)03 's-Gravenhage)

**37162** 12Ed. 5/18/96 LAST NM 32/03 33/03  
 Delete Buoy 52°55.7'N 4°32.8'E  
 (See 30/03-37162)  
 Substitute Depth 16.6 meters Wk [K26] for wreck 52°55.7'N 4°32.9'E  
 Depth 14.3 meters for 15.1 meters 51°56.0'N 3°36.5'E  
 Depth 14.4 meters for 14.7 meters 51°52.7'N 3°30.8'E  
 Add Foul ground symbol [K31] 52°44.0'N 3°21.3'E  
 (34(481)01, 17(259), 18(276)03 's-Gravenhage)

**37166** 2Ed. 7/13/96 LAST NM 32/03 33/03  
 Delete Buoy 52°55.7'N 4°32.8'E  
 (See 30/03-37166)  
 Substitute Depth 16.6 meters Wk [K26] for wreck 52°55.7'N 4°32.9'E  
 Add Depth 23.5 meters 52°04.5'N 3°08.3'E  
 Foul ground symbol [K31] 52°44.0'N 3°21.3'E  
 (39(557)01, 17(259), 18(276)03 's-Gravenhage)

**37238** 6Ed. 10/17/98 LAST NM 30/03 33/03  
 Delete Buoy 52°55'43"N 4°32'53"E  
 (See 30/03-37238)  
 Substitute Depth 16.6 meters Wk [K26] for wreck 52°55'43"N 4°32'54"E  
 (17(259)03 's-Gravenhage)

**37241** 17Ed. 8/2/97 LAST NM 32/03 33/03  
 Substitute Depth 14.3 meters for 15.1 meters 51°56'01"N 3°36'30"E  
 Depth 18.9 meters for 19.4 meters 51°55'18"N 3°33'31"E  
 Depth 14.4 meters for 15 meters 51°52'43"N 3°30'47"E  
 Depth 13.8 meters for 14.3 meters 51°51'58"N 3°29'17"E  
 (34(481)01 's-Gravenhage)

**37244** 11Ed. 2/1/97 LAST NM 32/03 33/03  
 Substitute Depth 7.1 meters for 7.3 meters 51°48.7'N 3°27.2'E  
 Depth 13.4 meters for 13.9 meters 51°47.7'N 3°09.9'E  
 Depth 9.6 meters for 11.2 meters 51°43.1'N 3°17.8'E  
 Depth 14.3 meters for 15.1 meters 51°56.0'N 3°36.5'E  
 Depth 13.8 meters for 14.2 meters 51°51.9'N 3°29.3'E  
 Add Depth 23.5 meters 52°04.5'N 3°08.3'E  
 Foul ground symbol [K31] 51°47.4'N 3°19.9'E  
 Depth 9.5 meters 51°44.8'N 3°20.6'E  
 Depth 18.9 meters 51°55.3'N 3°33.5'E  
 Depth 14.4 meters 51°52.7'N 3°30.8'E  
 (34(481), 39(557)01, 18(277)03 's-Gravenhage)

**37246** 14Ed. 5/16/98 LAST NM 32/03 33/03  
 Substitute Depth 12.8 meters Wk [K26] for wreck 51°26'30"N 3°59'59"E

Add Depth 9.7 meters 51°26'06"N 4°01'08"E  
 (39(562)01, 17(258)03 's-Gravenhage)

**37362** 6Ed. 7/12/97 LAST NM 32/03 33/03  
 Add Light Fl(2) 6s to beacon "Notre-Dame" 47°05'25"N 2°08'14"W  
 (Cancels 22/03-37362)  
 (34(17)00 Brest)

**37501** 3Ed. 2/8/97 LAST NM 20/03 33/03  
 Delete R Bn at light 43°23'09"N 8°24'26"W  
 (12(218)03 Cadiz)

**37505** 2Ed. 11/23/85 LAST NM 7/03 33/03  
 Delete R Bn at light 43°23'09"N 8°24'26"W  
 (12(218)03 Cadiz)

**37506** 4Ed. 6/24/00 LAST NM 20/03 33/03  
 Delete R Bn at light 43°23'09.3"N 8°24'23.0"W  
 Light, islet and reef in vicinity 43°21'32.0"N 8°14'50.0"W  
 Buoy 43°27'25.0"N 8°20'00.0"W  
 Substitute Depth 8.1 meters for 9 meters 43°28'14.0"N 8°13'52.0"W  
 and add legend "Bajo de la Lomba"  
 Depth 9.5 meters for 9.8 meters 43°28'28.5"N 8°13'52.0"W  
 Depth 3.7 meters for 4.6 meters 43°24'54.0"N 8°16'11.0"W  
 Change Sectors of light to white 044°-064°, red-044° 43°27'55.7"N 8°18'15.1"W  
 (24(432)02, 12(218), 14(258)03 Cadiz; Spn CH 412A)

**44082** 11Ed. 12/16/95 LAST NM 9/03 33/03  
 Add Depth 40 meters Wk [K26] 54°34'48"N 14°50'02"E  
 (21(121)03 Kobenhavn)

**44120** 7Ed. 2/22/97 LAST NM 27/03 33/03  
 Add Depth 40 meters Wk [K26] 54°34.8'N 14°50.0'E  
 Depth 54 meters Wk [K26] 54°38.3'N 15°06.7'E  
 Depth 43 meters Wk [K26] 55°18.5'N 14°37.1'E  
 (21(122-124)03 Kobenhavn)

**44340** 11Ed. 8/10/96 LAST NM 26/03 33/03  
 Delete Depth 17 meters 60°01.8'N 26°40.1'E  
 Add Depth 16.4 meters 60°02.0'N 26°39.7'E  
 (16(2318)03 St. Petersburg)

**51007** 22Ed. 12/18/93 LAST NM 27/03 33/03  
 Add Wreck [K29] 42°18.0'N 9°00.0'W  
 Depth 29.5 meters (SD) 37°59.5'N 8°53.1'W  
 (15(270)03 Cadiz; 7(187)03 Lisboa)

**51013** 4Ed. 3/23/85 LAST NM 21/03 33/03  
 Add Depth 29.5 meters (SD) 37°59.6'N 8°52.7'W  
 (7(187)03 Lisboa)

**51100** 7Ed. 10/22/94 LAST NM 27/03 33/03  
 Add Wreck [K29] 42°18.0'N 9°00.0'W  
 (15(270)03 Cadiz)

**51142** 2Ed. 7/12/97 LAST NM 22/03 33/03  
 Add Stranded wreck [K24] 38°44'42"N 9°05'46"W  
 (7(185)03 Lisboa)

**51150** (INT 1811) 1Ed. 3/24/90 LAST NM 22/03 33/03  
 Add Depth 29.5 meters (SD) 37°59.6'N 8°53.1'W  
 (7(187)03 Lisboa)

**★53063** 9Ed. 5/17/03 NEW EDITION 33/03  
 (NIMA)

**53106** 6Ed. 5/20/00 LAST NM 21/03 33/03  
 Add Purple dashed-line circle "Unexploded  
 Ordnance Rep (2002)", radius 500 meters,  
 centered 44°03'38"N 9°45'06"E  
 (NTM0020/2003)

## SECTION I

NM 33/03

★53133	4Ed. 5/17/03	NEW EDITION	33/03		
	(NIMA)				
54352	3Ed. 8/10/96	LAST NM 3/03	33/03		
	(Plan D)				
Change	Line 3 of Title Block from "From a Greek...1929" to "From Greek Charts Corrected to 2001"		39°51'20.0"N 25°09'00.0"E		
Add	Chartlet A, depicting changes in hydrography, topography and aids to navigation, from Subsection I-2		39°50'30.0"N 25°09'05.0"E		
	Chartlet B, depicting changes in hydrography, topography and aids to navigation, from Subsection I-2		39°50'40.0"N 25°10'00.0"E	(3(77, 78), 11(243)00, 10(286)01 Constanta)	
	(4(106)01 Athens)				
★54416	5Ed. 7/6/96	LAST NM 7/02	33/03		
Delete	Legend "SEE PLAN"		36°27'30"N 28°16'45"E		
Add	Purple outline of chart 54417 joining		36°24'00"N 28°13'00"E 36°30'00"N 28°13'00"E 36°30'00"N 28°17'00"E 36°24'00"N 28°17'00"E		
	(Plan)				
Delete	Plan (Rodhos Anchorages)		36°27'00.0"N 28°14'00.0"E		
	(NIMA)				
54481	8Ed. 5/25/96	LAST NM 36/02	33/03		
Change	Light to Fl G 5s 7M		36°33'28"N 35°23'02"E		
	Light to Fl R 5s 8M		36°33'22"N 35°23'04"E		
Add	Light Fl R 10s 9M		36°33'26"N 35°23'19"E		
	(32(153)02 Istanbul)				
55001 (INT 310)	4Ed. 1/21/95	LAST NM 29/03	33/03		
Delete	Light		43°24.0'N 28°10.8'E		
	Light		43°01.5'N 27°53.3'E		
	(11(243)00 Constanta)				
55062	5Ed. 6/8/96	LAST NM 28/03	33/03		
Add	Submarine cable [L30.1] joining		43°14'01.8"N 28°00'53.7"E 43°14'03.0"N 28°01'08.1"E 43°14'03.0"N 28°01'18.3"E 43°13'54.6"N 28°01'55.5"E 43°13'18.1"N 28°08'00.0"E		
	(36(5538)01 St. Petersburg)				
55085	9Ed. 9/21/96	LAST NM 31/03	33/03		
Add	Submarine cable [L30.1] joining		46°08.4'N 30°32.3'E 46°08.1'N 30°32.8'E 46°07.6'N 30°33.6'E 46°05.7'N 30°36.0'E 46°05.3'N 30°36.3'E 45°57.5'N 30°40.1'E 45°53.2'N 30°53.9'E 45°37.4'N 31°03.4'E 45°25.0'N 31°10.7'E		
	(36(5539)01 St. Petersburg)				
55100	8Ed. 1/23/99	LAST NM 29/03	33/03		
Delete	Light		43°24.0'N 28°10.8'E		
	Light		43°01.5'N 27°53.3'E		
Add	Platform "Taurida" [L2]		43°40.7'N 28°42.2'E		
	(3(78), 11(243)00 Constanta)				
55104	2Ed. 4/20/96	LAST NM 31/03	33/03		
Delete	"Prohib Area No 135" in vicinity		44°22'46"N 33°44'42"E		
	(16(2361)03 St. Petersburg)				
55105	7Ed. 2/6/99	LAST NM 29/03	33/03		
Add	Submarine cable [L30.1] joining		44°11.3'N 38°26.8'E 44°13.3'N 38°31.0'E 44°14.9'N 38°32.2'E 44°17.0'N 38°37.2'E 44°17.0'N 38°38.8'E 44°18.6'N 38°41.8'E		
	(36(5540)01 St. Petersburg)				
55120	2Ed. 6/15/96	LAST NM 28/03	33/03		
Delete	Light		43°24.5'N 28°10.8'E 43°01.5'N 27°53.3'E		
	Light				
Add	Light F		43°24.2'N 28°09.9'E		
	Platform "Taurida" [L2]		43°40.7'N 28°42.2'E		
	"ANCH & FISH PROHIB" area [L40.2] bound by purple composite line joining		43°07.0'N 27°55.8'E 43°02.8'N 28°12.4'E 43°01.8'N 28°11.8'E 43°06.1'N 27°55.4'E		
	(3(77, 78), 11(243)00, 10(286)01 Constanta)				
55130	2Ed. 2/8/97	LAST NM 32/03	33/03		
Add	Submarine cable [L30.1] joining		46°08.4'N 30°32.3'E 46°05.3'N 30°36.3'E 45°57.5'N 30°40.1'E 45°53.2'N 30°53.9'E 44°59.6'N 31°25.7'E 44°48.0'N 31°32.5'E		
	(36(5539)01 St. Petersburg)				
55140	2Ed. 9/28/96	LAST NM 29/03	33/03		
Delete	"Prohib Area No 135" in vicinity		44°23.8'N 33°45.5'E		
	(16(2361)03 St. Petersburg)				
55180	2Ed. 10/12/96	LAST NM 29/03	33/03		
Add	Submarine cable [L30.1] joining		44°11.3'N 38°26.8'E 44°13.3'N 38°31.0'E 44°14.9'N 38°32.2'E 44°17.0'N 38°37.2'E 44°17.0'N 38°38.8'E 44°17.7'N 38°40.9'E 44°18.1'N 38°41.5'E 44°18.6'N 38°41.8'E		
	(36(5540)01 St. Petersburg)				
55200	2Ed. 8/17/96	LAST NM 32/03	33/03		
Add	Danger circle [K40] "Obstn"		45°09.6'N 36°30.5'E		
	Danger circle [K40] "Obstn"		45°07.5'N 36°31.1'E		
	(16(2365, 2368)03 St. Petersburg)				
★56100	14Ed. 5/10/03	NEW EDITION	33/03		
	(NIMA)				
56103	6Ed. 5/15/99	LAST NM 1/03	33/03		
Delete	Buoy "1"		31°10'45.0"N 29°51'45.0"E		
Relocate	Buoy "D15" from 31°09'01.8"N to 31°09'06.6"N		29°48'25.8"E 29°48'22.8"E		
	(27(2912, 2913)03 Taunton)				
★62098	7Ed. 5/24/03	NEW EDITION	33/03		
	(NIMA)				
★62366	4Ed. 5/10/03	NEW EDITION	33/03		
	(NIMA)				
★62391	5Ed. 6/7/03	NEW EDITION	33/03		
	(NIMA)				
63252	1Ed. 6/14/86	LAST NM 48/01	33/03		
Relocate	Buoy "No 16" from 8°44'37.8"N 78°13'49.5"E to 8°44'35.9"N 78°13'50.7"E				
	Buoy "No 18" from 8°44'03.0"N 78°14'29.7"E to 8°44'01.1"N 78°14'32.7"E				
Add	Range beacon, front		8°45'24.5"N 78°12'20.7"E		
	Range beacon, rear		8°45'26.3"N 78°12'15.9"E		
	Range line extending in 110° direction from above range beacon, rear dashed for 300 meters, thence solid for 2060 meters				
	Legend "Bns in line 290°" along above range line		8°45'12.0"N 78°13'00.0"E		
	Buoy R, can, Fl(2) R 5s		8°44'18.5"N 78°14'09.9"E		
	(14(285)02 Dehra Dun)				

**71027** 9Ed. 9/19/98 LAST NM 23/03 33/03  
 Add Submarine pipeline (gas) [L40.1] joining  
 4°43.5'N 113°06.0'E  
 4°40.5'N 113°03.5'E  
 4°23.2'N 112°47.0'E  
 4°20.8'N 112°46.0'E  
 4°18.4'N 112°41.8'E  
 Platform (lighted) [L10] "E11R-C" 4°18.4'N 112°43.7'E  
 Platform (lighted) [L10] "B11DR-A" 4°43.5'N 113°06.0'E  
 Racon [S3.1] at platform 4°19.9'N 112°40.6'E  
 Racon [S3.1] at platform 3°45.8'N 112°03.8'E  
 (6106)02 Kuala Lumpur

**71262** 7Ed. 4/3/99 LAST NM 6/03 33/03  
 (Plan C)  
 Change Legend to "Dredged to 19.1m (2001)"  
 2°14'28.0"N 102°07'18.0"E  
 (366)02 Kuala Lumpur

**71275** 3Ed. 5/1/99 LAST NM 19/03 33/03  
 Change Legend to "Buoyed 19.1m Channel"  
 2°14'35"N 102°07'15"E  
 Add Anchorage area [N12.1] bound by purple  
 dashed line joining  
 2°15'00"N 102°05'36"E  
 2°15'28"N 102°05'07"E  
 2°15'44"N 102°05'28"E  
 2°15'17"N 102°05'53"E  
 (366)02 Kuala Lumpur

**71320** 1Ed. 11/21/87 LAST NM 14/03 33/03  
 (Panel A)  
 Add Submarine cable [L30.1] between  
 5°20.4'N 115°14.8'E  
 5°20.9'N 115°21.8'E  
 (7122)02 Kuala Lumpur

**71330** 13Ed. 4/2/94 LAST NM 5/03 33/03  
 Add Submarine cable [L30.1] between  
 5°20'26"N 115°14'47"E  
 5°20'56"N 115°21'47"E  
 (7122)02 Kuala Lumpur

**71331** 11Ed. 10/31/92 LAST NM 8/03 33/03  
 (Panel A)  
 Add Submarine cable [L30.1] between  
 5°20'26"N 115°14'47"E  
 5°20'56"N 115°21'47"E  
 (Panel B)  
 Add Submarine cable [L30.1] between  
 5°20'26"N 115°14'47"E  
 5°20'56"N 115°21'47"E  
 (7122)02 Kuala Lumpur

**71333** 2Ed. 7/11/92 LAST NM 7/03 33/03  
 Add Submarine cable [L30.1] between  
 5°20'26.4"N 115°14'46.8"E  
 5°20'56.4"N 115°21'46.8"E  
 (7122)02 Kuala Lumpur

**71340** 11Ed. 7/25/92 LAST NM 7/03 33/03  
 Add Platform (lighted) [L10] "E11R-C" 4°18.4'N 112°43.7'E  
 Platform (lighted) [L10] "B11DR-A" 4°43.5'N 113°06.0'E  
 Racon [S3.1] at platform 4°19.9'N 112°40.6'E  
 Racon [S3.1] at platform 3°45.8'N 112°03.8'E  
 Dangerous wreck [K28] (PA) 3°14.0'N 112°55.2'E  
 Depth 10.9 meters 3°11.0'N 112°51.9'E  
 Submarine pipeline (gas) [L40.1] with legend  
 "Gas" joining  
 4°43.5'N 113°06.0'E  
 4°40.5'N 113°03.5'E  
 4°23.2'N 112°47.0'E  
 4°20.8'N 112°46.0'E  
 4°18.4'N 112°41.8'E  
 (6104, 106)02 Kuala Lumpur

**71402** 1Ed. 7/6/91 LAST NM 6/03 33/03  
 Add Dangerous wreck [K28] (PA) 3°13'59"N 112°55'12"E  
 Depth 10.9 meters 3°11'02"N 112°51'54"E  
 (6104)02 Kuala Lumpur

**75207** 2Ed. 11/9/96 LAST NM 16/03 33/03  
 Delete Beacon 41°08'43.2"S 146°49'43.2"E  
 Light and legend "Pile" 41°08'49.8"S 146°49'27.6"E

Light 41°08'39.0"S 146°51'45.6"E  
 Range line and legend  
 "Leading Lights 127°41'" between  
 41°04'48.0"S 146°48'27.6"E  
 41°01'38.0"S 146°43'10.0"E  
 Range line and legend "123'" between  
 41°04'31.2"S 146°48'20.0"E  
 41°03'32.0"S 146°46'22.0"E  
 (See 52/02-75207)  
 Relocate Light from 41°06'35.4"S 146°49'11.0"E to  
 41°06'33.8"S 146°49'10.9"E  
 Pilot station symbol from  
 41°01'12.0"S 146°44'18.0"E to  
 41°00'42.0"S 146°44'21.0"E  
 Substitute Beacon R, can topmark for  
 position circle "Pile" 41°08'25.8"S 146°48'38.4"E  
 Beacon "Bell Bay 1" G, cone topmark,  
 Q(2)G 5s 5m 3M Ra Ref [S4] for light  
 41°08'55.4"S 146°50'49.4"E  
 Beacon R, FR for light 41°07'18.6"S 146°49'04.8"E  
 Beacon "Bell Bay 2" R, Fl(2) R 4s for  
 light "Bell Bay" 41°08'46.2"S 146°50'46.2"E  
 Change Characteristic of beacon to Fl G 1.5s  
 41°08'43.9"S 146°49'31.8"E  
 Designation of light "Bell Bay 2" to  
 "Bell Bay 4" 41°08'44.6"S 146°51'06.7"E  
 Legend "345°30'" to "344°48'" 41°04'48.0"S 146°47'53.0"E  
 Legend "182°15'" to "181°48'" 41°05'58.0"S 146°48'07.0"E  
 Legend "004°32'" to "004°30'" 41°05'30.0"S 146°48'14.0"E  
 Legend "126°16'-306°16'" to  
 "125°42'-305°42'" 41°06'30.0"S 146°48'37.0"E  
 Line 4 of PILOT note to "of latitude 41°01'S"  
 41°07'36.0"S 146°45'18.0"E  
 Add Beacon BY, double cone topmark  
 points upward, VQ 4m 2M 41°08'39.7"S 146°49'43.4"E  
 Beacon G, QG 41°08'35.1"S 146°51'46.6"E  
 Beacon "Bell Bay 3" G, Fl G 3s  
 41°08'52.4"S 146°51'09.1"E  
 Range line extending in 307°42' direction from  
 rear range light 41°04'48.0"S 146°48'27.6"E  
 dashed for 3350 meters, thence  
 solid for 3400 meters  
 Legend "127°42'" along above range line  
 41°02'38.0"S 146°44'44.0"E  
 Dashed line (one way recommended track)  
 [M4] between 41°00'42.0"S 146°44'21.0"E  
 41°03'03.0"S 146°45'28.8"E  
 Legend "160'" along above track  
 41°02'00.0"S 146°45'00.0"E  
 Range line extending in 302°30' direction from  
 rear range light 41°04'31.2"S 146°48'20.0"E  
 dashed for 1955 meters, thence  
 solid for 1625 meters  
 Legend "122°30'" along above range line  
 41°03'52.0"S 146°47'00.0"E  
 (Plan A)  
 Delete Beacon 41°08'43.5"S 146°49'43.2"E  
 Beacon and legend "Pile" 41°08'49.8"S 146°49'27.6"E  
 Change Characteristic of beacon to Fl G 1.5s  
 41°08'43.9"S 146°49'31.8"E  
 Add Beacon BY, double cone topmark  
 points upward, VQ 4m 2M 41°08'39.7"S 146°49'43.4"E

(continued on next page)

## SECTION I

NM 33/03

<b>75207</b>	(Continued)				30°53.3'N 123°43.6'E
	<b>(Plan B)</b>				30°23.0'N 124°48.0'E
Delete	Light	41°08'39.6"S 146°51'45.6"E			29°51.1'N 126°42.0'E
Add	Beacon G, QG (9(271)00, 11(372), 12(404)03 Wollongong; BA LL)	41°08'35.1"S 146°51'46.6"E		(20(374-376)02 Tianjin)	29°35.4'N 126°57.0'E
					29°11.0'N 127°37.0'E
<b>75208</b>	2Ed. 7/22/95 LAST NM 30/03				33/03
	<b>(Plan A)</b>				
Delete	Light	41°08'40.0"S 146°51'45.0"E			
Add	Beacon G, QG (12(404)03 Wollongong)	41°08'35.1"S 146°51'46.6"E			
<b>75213</b>	2Ed. 7/8/95 LAST NM 52/02				33/03
Delete	Range line and legend "Lts in line 127°41'" between	41°04'48"S 146°48'28"E 41°00'58"S 146°42'05"E			
	(See 52/02-75213)				
Relocate	Pilot station symbol from 41°01'12"S 146°44'18"E to	41°00'42"S 146°44'21"E			
Change	Line 3 of Notes No. 3 to "south of latitude 41°01'S"	41°04'00"S 147°19'00"E			
Add	Dashed line (one way recommended track) [M4] between	41°00'42"S 146°44'21"E 41°03'03"S 146°45'29"E			
	Legend "160°" along above track	41°02'00"S 146°45'00"E			
	Range line extending in 307°42' direction from rear range light	41°00'48"S 146°44'28"E			
	dashed for 3350 meters, thence solid for 3400 meters				
	Legend "127°42'" along above range line	41°02'38"S 146°44'44"E			
	(9(271)00, 12(404)03 Wollongong)				
<b>75215</b>	2Ed. 1/24/98 LAST NM 7/03				33/03
Delete	Range line and legend "Lts in line 127°41'" between	41°08'48"S 146°48'28"E 40°59'15"S 146°39'12"E			
	(See 52/02-75215)				
Relocate	Pilot station symbol from 41°01'18"S 146°44'15"E to	41°00'42"S 146°44'21"E			
Change	Line 3 of PILOT note to "not proceed south of latitude 41°01'S"	41°02'00"S 145°30'00"E			
Add	Dashed line (one way recommended track) [M4] between	41°00'42"S 146°44'21"E 41°03'03"S 146°45'29"E			
	Legend "160°" along above track	41°02'00"S 146°45'00"E			
	Range line extending in 307°42' direction from light	41°00'48"S 146°44'28"E			
	dashed for 3350 meters, thence solid for 3400 meters				
	Legend "127°42'" along above range line	41°02'38"S 146°44'44"E			
	(9(271)00, 12(404)03 Wollongong)				
<b>93048</b>	1Ed. 11/20/82 LAST NM 14/03				33/03
Add	Submarine cable [L30.1] between	5°20'26"N 115°14'47"E 5°20'56"N 115°21'47"E			
	(7(122)02 Kuala Lumpur)				
<b>94016</b>	2Ed. 9/23/95 LAST NM 21/03				33/03
Add	Submarine cable [L30.1] joining	31°00.0'N 126°01.9'E 30°25.2'N 126°15.6'E 30°10.2'N 126°20.0'E 29°39.7'N 126°42.2'E 28°26.9'N 127°06.2'E			
	Submarine cable [L30.1] joining	31°00.0'N 126°33.0'E 30°58.6'N 126°39.9'E 30°40.8'N 127°17.3'E			
	Submarine cable [L30.1] joining	31°00.0'N 123°37.0'E 30°59.0'N 123°36.5'E			
<b>94028</b>	7Ed. 9/16/95 LAST NM 31/03				33/03
Add	Submarine cable [L30.1] joining				
	Submarine cable [L30.1] joining				
	Submarine cable [L30.1] joining				
	Submarine cable [L30.1] joining				
	Submarine cable [L30.1] joining				
	Submarine cable [L30.1] joining				
	Submarine cable [L30.1] joining				
	Submarine cable [L30.1] joining				
<b>94220</b>	4Ed. 9/23/95 LAST NM 18/03				33/03
Add	Submarine cable [L30.1] between				
	Submarine cable [L30.1] joining				
	Submarine cable [L30.1] joining				
	Submarine cable [L30.1] joining				
	Submarine cable [L30.1] joining				
<b>95060</b>	13Ed. 8/5/95 LAST NM 31/03				33/03
Add	Racon [S3.1] at light (See 44/01-95060)				
	(52(700)00 Incheon)				
<b>95066</b>	11Ed. 11/21/98 LAST NM 32/03				33/03
Add	Racon [S3.1] at light (See 44/01-95066)				
	(52(700)00 Incheon)				
<b>95085</b>	4Ed. 6/11/94 LAST NM 27/03				33/03
Delete	Buoy "A"				34°45'02.0"N 126°21'50.0"E
	Buoy "B"				34°45'08.0"N 126°21'52.0"E
	Buoy "C"				34°45'07.0"N 126°21'55.0"E
	Buoy "D"				34°45'02.0"N 126°21'53.0"E
	(52(699)00 Incheon)				
<b>95086</b>	5Ed. 6/18/94 LAST NM 31/03				33/03
Delete	Buoy "A"				34°45'02.0"N 126°21'50.0"E
	Buoy "B"				34°45'08.0"N 126°21'52.0"E
	Buoy "C"				34°45'07.0"N 126°21'55.0"E
	Buoy "D"				34°45'02.0"N 126°21'53.0"E
	(See 47/98-95086)				
	(52(699)00 Incheon)				
<b>95140</b>	15Ed. 10/7/95 LAST NM 29/03				33/03
Delete	Light				35°14'50"N 129°15'12"E
	(52(695)00 Incheon)				
<b>95160</b>	13Ed. 8/19/95 LAST NM 27/03				33/03
Delete	Light				35°14.8'N 129°15.1'E
	(52(695)00 Incheon)				

**95320** 15Ed. 6/28/97 LAST NM 26/03 33/03  
 Add Depth 29.5 meters Fish haven [K46.2] 34°27'30"N 131°23'02"E  
 (24(888)03 Tokyo)

**96943** 15Ed. 12/9/95 LAST NM 23/03 33/03  
 Change Height of light to 15m 41°49'27"N 141°10'02"E  
 (See 9/03-96943)  
 (1(1)03 Tokyo; Jpn LL)

**96962** 4Ed. 8/9/97 LAST NM 22/03 33/03  
 Change Height of light to 15m 41°49'27"N 141°10'15"E  
 (See 9/03-96962)  
 (1(1)03 Tokyo; Jpn LL)

**97064** 2Ed. 2/19/94 LAST NM 14/03 33/03  
 Add Legend "Lesser depths reported (2003)"  
 between 38°23'31.5"N 141°16'18.0"E  
 38°23'42.0"N 141°16'37.0"E  
 (See 33/99-97064)  
 (25(950)03 Tokyo)

**97204** 9Ed. 2/12/94 LAST NM 25/03 33/03  
 Add Light Iso R 6s 13m 11M 34°39'10.8"N 135°11'25.0"E  
 Fish haven symbol [K46.1] 34°38'19.0"N 135°07'00.0"E  
 (16(596), 23(858)03 Tokyo)

**97218** 3Ed. 8/23/97 LAST NM 6/03 33/03  
 Delete Dashed line and legend "Nets" in vicinity  
 34°46'42.0"N 134°40'05.0"E

Substitute Depth 6.6 meters for 7 meters 34°46'40.3"N 134°40'03.0"E  
 Depth 4.7 meters for 5.1 meters  
 34°46'39.0"N 134°39'51.7"E

Add Depth 2.2 meters 34°46'42.0"N 134°40'05.5"E  
 Depth 7.4 meters 34°46'41.0"N 134°40'04.5"E  
 (16(582)03 Tokyo)

**97220** 3Ed. 12/30/95 LAST NM 29/03 33/03  
 Add Light Iso R 6s 13m 11M 34°39'10.8"N 135°11'25.0"E  
 (16(596)03 Tokyo)

**97221** 20Ed. 1/17/98 LAST NM 29/03 33/03  
 Add Light Iso R 6s 11M 34°39'11"N 135°11'25"E  
 Fish haven symbol [K46.1] 34°38'19"N 135°07'00"E  
 (16(596), 23(858)03 Tokyo)

**97225** 31Ed. 1/21/95 LAST NM 25/03 33/03  
 Add Light Iso R 6s 11M 34°38'59"N 135°11'35"E  
 Fish haven symbol [K46.1] 34°38'07"N 135°07'10"E  
 (16(596), 23(858)03 Tokyo)

**97229** 12Ed. 7/4/98 LAST NM 28/03 33/03  
 Delete "Entry Prohibited" area and temporary buoys  
 (2) in vicinity 34°39'51.0"N 135°14'07.0"E

Beacon "A" 34°39'08.0"N 135°11'24.0"E  
 Beacon "B" 34°39'14.0"N 135°11'25.0"E  
 (See 33/00, 28/03-97229)

Substitute Light Iso R 6s 13m 11M for  
 position circle "Y Lt" 34°39'10.8"N 135°11'25.0"E

Solid line for dashed line joining  
 34°40'09.6"N 135°14'02.4"E  
 34°39'55.1"N 135°14'11.2"E  
 34°39'44.0"N 135°13'34.8"E

Note: Construction completed

Add Legend "Unsurveyed" between  
 34°39'55.1"N 135°14'11.2"E  
 34°39'44.0"N 135°13'34.8"E  
 (16(595), 596)03 Tokyo)

**97230** 18Ed. 7/5/97 LAST NM 28/03 33/03  
 Delete Beacon "A" 34°39'08.0"N 135°11'24.0"E  
 Beacon "B" 34°39'14.0"N 135°11'25.0"E  
 (See 28/03-97230)

Substitute Light Iso R 6s 13m 11M for  
 position circle "Y Lt" 34°39'10.8"N 135°11'25.0"E

Add Fish haven area with blue tint [K46.1] bound  
 by dotted line (limiting danger line) joining  
 34°38'22.0"N 135°07'02.0"E  
 34°38'18.0"N 135°07'04.0"E  
 34°38'16.0"N 135°06'57.0"E  
 34°38'21.0"N 135°06'56.0"E  
 (16(596), 23(858)03 Tokyo)

**97231** 11Ed. 8/30/97 LAST NM 23/03 33/03  
 Delete Legend "Nets" 34°46'42.0"N 134°40'04.0"E

Substitute Depth 6.6 meters for 7 meters 34°46'40.5"N 134°40'03.3"E  
 Depth 4.7 meters for 5.1 meters  
 34°46'39.5"N 134°39'52.0"E

Add Depth 2.2 meters 34°46'42.8"N 134°40'06.0"E  
 Depth 7.4 meters 34°46'41.6"N 134°40'04.0"E  
 (16(582)03 Tokyo)

**97232** 8Ed. 1/11/86 LAST NM 25/03 33/03  
 Add Fish haven symbol [K46.1] 34°14'28.0"N 134°41'32.0"E  
 (25(940)03 Tokyo)

**97233** 11Ed. 11/27/93 LAST NM 23/03 33/03  
 Delete Overhead power cable and legend "37"  
 in vicinity 34°12'02"N 133°02'08"E  
 (26(974)03 Tokyo)

**97243** 8Ed. 3/7/98 LAST NM 27/03 33/03  
 Delete Overhead power cable and legend "37"  
 in vicinity 34°12'13.0"N 133°01'58.0"E  
 (26(974)03 Tokyo)

**97262** 10Ed. 1/24/98 LAST NM 26/03 33/03  
 Delete Overhead power cable and legend "37"  
 in vicinity 34°12'13.0"N 133°01'58.0"E  
 (26(974)03 Tokyo)

**97392** 5Ed. 2/15/97 LAST NM 26/03 33/03  
 Add Depth 34 meters 33°20'18"N 129°09'06"E  
 Depth 34 meters 33°20'06"N 129°09'12"E  
 (26(1001)03 Tokyo)

**97396** 14Ed. 8/30/97 LAST NM 23/03 33/03  
 Delete Depth 47 meters 33°20'42"N 129°08'30"E  
 (Supersedes 36/02-97396)

Add Depth 34 meters 33°20'18"N 129°09'06"E  
 Depth 34 meters 33°20'06"N 129°09'12"E  
 (26(1001)03 Tokyo)

**97420** 17Ed. 9/20/97 LAST NM 10/03 33/03  
 Add Depth 34 meters 33°20.3"N 129°09.1"E  
 (26(1001)03 Tokyo)

**97465** 9Ed. 2/3/96 LAST NM 22/03 33/03  
 Add Superbuoy [Q26] 26°14'20"N 127°48'40"E  
 (24(921)03 Tokyo)

**97469** 10Ed. 7/19/97 LAST NM 22/03 33/03  
 Add Superbuoy [Q26] 26°14'20.0"N 127°48'40.0"E  
 (24(921)03 Tokyo)

**97471** 5Ed. 12/16/95 LAST NM N22/03 N33/03  
 Add Superbuoy [Q26] 26°14'20.0"N 127°48'40.0"E  
 (24(921)03 Tokyo)

**97472** 8Ed. 11/9/96 LAST NM 34/02 33/03  
 Add Depth 2 meters 26°24'25.9"N 127°50'50.0"E  
 (22(845)03 Tokyo)

<b>801217</b>	1Ed. 2/7/98	LAST NM N22/03	N33/03
Add	Depth 2 meters	26°24'12"N 127°50'58"E	
	Superbuoy [Q26]	26°14'06"N 127°48'48"E	
(22(845), 24(921)03	Tokyo)		

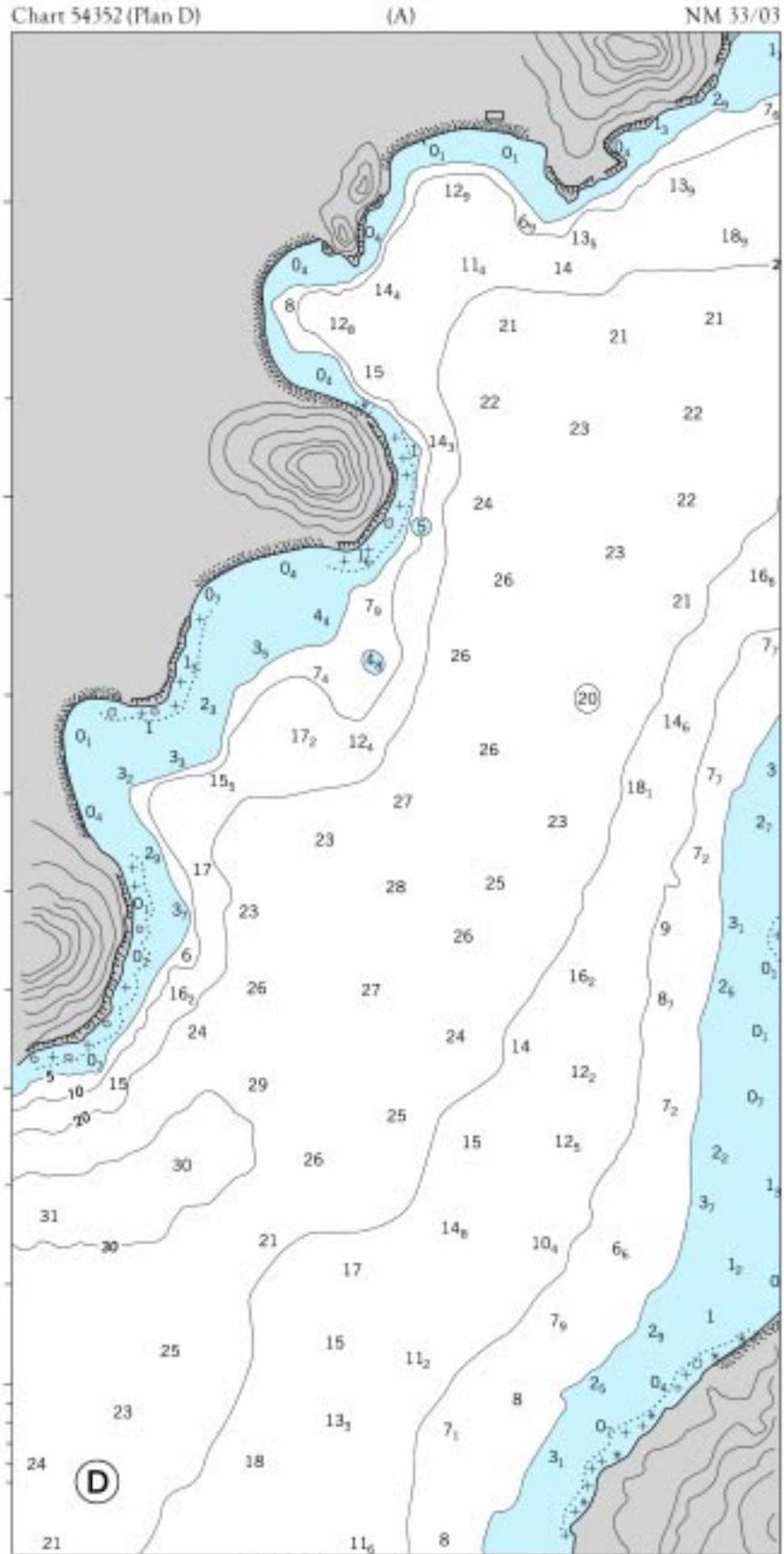
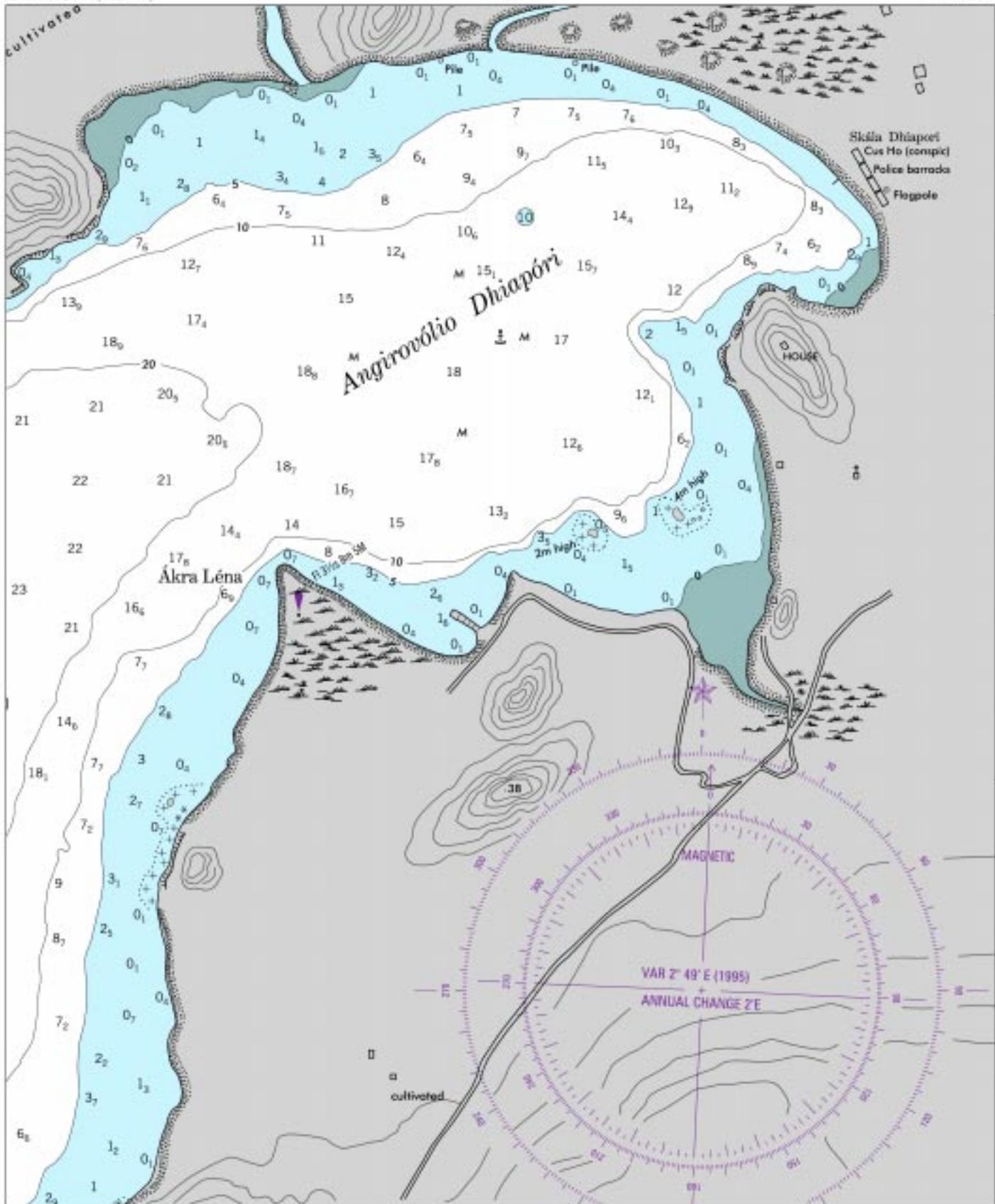


Chart 54352 (Plan D)

(B)

NM 33/03



SECTION I

NM 33/03

Chart 12327

NM 33/03

NEW YORK HARBOR - LOWER BAY - CHANNEL DEPTHS TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF FEB 2003 AND SURVEYS TO JAN 2003								
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
AMBROSE CHANNEL	40.3	44.7	44.9	28.4	9-95	2000	9.2	45
SANDY HOOK CHANNEL (EAST)	38.9	40.7	37.9	31.8	6,7-02	A800-2200	3.5	A35
SANDY HOOK CHANNEL	24.9	38.6	37.3	32.9	6,7-02	800	2.4	35
CHAPEL HILL:								
SOUTH CHANNEL	28.5	29.5	30.1	27.7	10-02	1000	2.7	30
NORTH CHANNEL	28.7	29.1	29.0	27.9	10-02	1000	1.8	30
TERMINAL CHANNEL	44.2	45.7	46.0	44.0	2-97	400	0.8	35
KEYPORT HARBOR CHANNEL	5.0	6.7	6.5	5.8	5-02	100-200	0.9	8
RARITAN BAY EAST REACH	34.9	37.8	37.0	33.6	12-02; 1-03	600	4.0	35
RARITAN BAY WEST REACH	32.9	38.5	39.1	31.0	12-02; 1-03	600	2.4	35
SEGUINE POINT BEND	28.5	35.1	38.4	29.7	9-01	600-800	1.2	35
RED BANK REACH	34.0	40.3	40.5	34.2	9-01	600	1.2	35
WARD POINT BEND (EAST)	31.5	38.7	36.9	27.6	9,12-01	600-800	1.1	35
WARD POINT BEND (WEST)	35.0	35.0	35.0	33.8	9,12-01	600-800	0.8	35
RARITAN RIVER CUT OFF	16.7	19.3	19.3	11.6	3-99	600-1100	1.0	20
WARD POINT SECONDARY CHANNEL	21.3	21.0	20.9	20.6	12-02	400	0.9	30
GREAT BEDS REACH	23.9	25.3	25.1	23.3	6-02	300	0.6	25
SOUTH AMBOY REACH	24.1	24.3	24.5	23.4	6-02	300	1.2	25

A. THE NAVAL FACILITIES ENGINEERING COMMAND MAINTAINS A 45 FOOT PROJECT FOR A WIDTH OF 600 FEET IN SANDY HOOK (EAST) TO THE TURNING BASIN.

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 12331

NM 33/03

RARITAN BAY, ARTHUR KILL AND RARITAN RIVER TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF FEB 2003 AND SURVEYS TO JAN 2003								
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
RARITAN BAY WEST REACH	32.9	38.5	39.1	31.0	12-02; 1-03	600	2.4	35
SEGUINE POINT BEND	28.5	35.1	38.4	29.7	9-01	600-800	1.2	35
RED BANK REACH	34.0	40.3	40.5	34.2	9-01	600	1.2	35
WARD POINT BEND (EAST)	31.5	38.7	36.9	27.6	9,12-01	600-800	1.1	35
WARD POINT BEND (WEST)	35.0	35.0	35.0	33.8	9,12-01	600-800	0.8	35
OUTERBRIDGE REACH	34.4	34.7	35.9	35.9	9-01; 3-02	600-800	0.8	35
PORT SOCONY REACH	31.9	35.0	35.6	33.4	3-02	600-800	0.8	35
PORT READING REACH	22.1	35.0	35.2	27.7	3-02	500	1.8	35
FRESH KILLS REACH	29.0	35.2	36.5	33.9	3-02	500	1.8	35
RARITAN RIVER CUTOFF	16.7	19.3	19.3	11.6	3-99	600-1100	1.0	20
WARD POINT SECONDARY CHANNEL	21.3	21.0	20.9	20.6	12-02	400	0.9	30
GREAT BEDS REACH	23.9	25.3	25.1	23.3	6-02	300	0.6	25
SOUTH AMBOY REACH	24.1	24.3	24.5	23.4	6-02	300	1.2	25

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

## SECTION I

NM 33/03

Chart 12401

NM 33/03

NEW YORK HARBOR-LOWER BAY-CHANNEL DEPTHS								
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF FEB 2003 AND SURVEYS TO JAN 2003								
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
AMBROSE CHANNEL	40.3	44.7	44.9	28.4	9-95	2000	9.2	45
SANDY HOOK CHANNEL (EAST)	38.9	40.7	37.9	31.8	6,7-02	A800-2200	3.5	A35
SANDY HOOK CHANNEL CHAPEL HILL:	24.9	38.6	37.3	32.9	6,7-02	800	2.4	35
SOUTH CHANNEL	28.5	29.5	30.1	27.7	10-02	1000	2.7	30
TERMINAL CHANNEL	44.2	45.7	46.0	44.0	2-97	400	0.8	35
RARITAN BAY EAST REACH	34.9	37.8	37.0	33.6	12-02; 1-03	600	4.0	35
RARITAN BAY WEST REACH	32.9	38.5	39.1	31.0	12-02; 1-03	600	2.4	35
A. THE NAVAL FACILITIES ENGINEERING COMMAND MAINTAINS A 45 FOOT PROJECT FOR A WIDTH OF 600 FEET IN SANDY HOOK (EAST) TO THE TURNING BASIN.								
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION								

**CHARTS AFFECTED BY NOTICE TO MARINERS  
NM 20/02 THROUGH NM 33/03**

Note: N indicates Not For Sale; P indicates Preliminary; T indicates Temporary;  
\* indicates New Edition/New Chart; \*\* indicates Chart Canceled

Chart No.	Ed. No.	Notice to Mariners No.	Chart No.	Ed. No.	Notice to Mariners No.	Chart No.	Ed. No.	Notice to Mariners No.	Chart No.	Ed. No.	Notice to Mariners No.
12	1	45/02	11314	22	17*,21,22,32/03	11369	44	9*,18,19,21,27/03	11472	31	8*,25/03
20	3	18/03	11315	30	37/02*	11370	23	31,33,40,51/02;9,21,23,24,26,31,33/03	11474	10	6,17/03
22	1	18/03	11316	39	17*,22,26,29/03				11475	16	27,51/02;13/03
50	6	32/03*	11317	29	20*,21,25,37,40,49/02;	11371	35	7,24,26,27,31/03	11476	19	6/03
70	4	7/03			16,19,20,21,23,26,29,30/03	11372	30	2*,7,8,10,19,23,24,26,27,31/03	11478	20	32/03*
71	4	7/03	11318	1	N21,N29,N46/02;N6,N24,N25/03	11373	42	31*,33,37,40,41,42,45,49/02;7,9,19,20,21,23,24,25,26,27,29/03	11479	4	N24,N27,N28,N29,N35,N50/02;N6,N23,N25,N31/03
101	3	48/02	11319	31	17*,19,20,25,26,29,30/03				11480	38	30/03*
103	5	16/03	11320	1	N28/02;N22,N23,N24/03	11374	31	45*,49,50/02;1,2,7,8,9,19,20,23,24,26,27,29/03	11481	4	42*,49/02;6,12,13,19,28/03
108	9	32,35/02	11321	29	22,28,39,40,41,45/02;23,31/03	11375	35	1*,2,5,7,9,20,23,24,27,29/03	11485	33	22/03*
124	10	18/03	11322	28	19*,20,23,30/03	11376	48	21,22,23,25,27,29,31,40,43,50/02;2,7,19,20,21,22,23,24,25,26,30/03	11488	24	7,17/03
125	7	21/03	11323	59	26*,28,33,37,39,45/02;1,6,7,9,20,23,27,29,31/03				11489	34	8*,12,20,22,31/03
126	39	21/03	11324	32	22*,24,25,31,33,37/02;1,6,7,9,10,16,20,21,23,25,29,30,31/03	11377	4	26*,40,50/02;2,20,21,22,23,24,25,26/03	11491	33	22,28,29,30,34,37,38/02;12,30/03
301	1	14,21,24/03	11325	35	26/03*	11378	32	11*,12,18,20,21,22,24,26,30/03	11494	8	N24,N39/02;N22/03
302	1	2/03	11326	31	7*,9,16,20,21,22,23,24,30,31,33/03	11382	39	46/02*-9,25,26/03	11496	9	N32,N35/02;N1,N17,N19/03
310	20	2,14,21,24/03	11327	30	21,22,24,28,37,49/02;1,16,19,20,22,24,29,30,33/03	11383	49	22,27,30,32/02;9,18,26,30/03	11502	28	14,17,20,22/03
400	3	23,26,31,32,33,35,45/02;29,33/03	11328	22	21,36,37,39,47,49/02;4,6,16,20,21,22,30/03	11385	25	23/02*	11503	39	38*,39,43/02;12,14,17,20,22,31/03
401	5	22,23,26,31,33,35,45/02;14,29,33/03	11329	34	21,24,36,37,39,47,49/02;1,4,8,10,16,21,22,30/03	11388	16	24/03	11504	15	12,22/03
411	49	19*,22,23,24,25,26,29,30,31,33/03	11330	14	2*,4,6,7,8,17,19,20,21,22,23,27,30,31/03	11389	32	23,28,33,37/02;2,7,32/03	11505	1	26,28,31,34,40,49/02;1,4,5,11,22/03
500	8	32/03*	11331	18	23/02;8,19,23,30/03	11390	22	23*,27,33,34,37/02;7,21,30,32/03	11506	40	10*,19,22,28/03
501	12	9*,10,18,21,22,24/03	11332	28	42*,43,49,51/02;6,17,19,20,23,25,31/03	11392	6	34/02;21,32/03	11507	31	9*,12,20/03
502	2	52/02	11333	1	N28/02	11393	20	30/03	11508	21	10/03*
507	2	45/02	11340	67	2*,5,6,7,8,9,14,17,18,19,21,22,23,24,25,26,27,29,30,31,32/03	11400	34	23,39/02;4,9,11,12,13/03	11509	27	20/02;1,11,24/03
508	2	24,45/02	11341	39	14*,17,21,22,23,25,31/03	11401	29	23/02;27/03	11510	18	34/02
513	6	38/02	11342	52	27*,29,31/03	11402	21	30/03*	11511	16	11/03
520	127	20,38/02	11343	36	21,23,37,40,49/02;4,8,17,19,20,23,30/03	11403	28	32/03*	11512	59	10*,11,15,20,22,24/03
524	12	47/02	11344	35	9*,19,22,23,26,27,29,31/03	11404	21	33/02;9,19,27/03	11513	23	32,49/02;1,24/03
526	10	47/02;6/03	11345	31	9/03*	11405	28	31/02*;9,19,27,30/03	11514	26	37*,40,49/02;4,5,15,22,24/03
530	30	22*,26,37,38,40,52/02;6,10,18,21,22,24/03	11346	33	42*,43,47,49/02;4,6,7,8,19,20,21,23,25,26,27,29,31,32/03	11406	11	9/03	11516	29	24,37,49/02
531	21	47,52/02;21,24,32/03	11347	36	21,23,37,40,49/02;4,8,17,19,20,23,30/03	11408	28	3/03*	11517	17	32/02;24/03
532	17	38/02	11348	19	23/02;6,7,20,25,27,31,32/03	11409	28	32/03*	11518	33	14*,19,28/03
540	16	51/02;16,30/03	11349	40	38*,42,51/02;23,26,27,31/03	11411	14	43*,45/02;7,20/03	11519	12	28/03*
541	2	6/03	11351	38	20*,22,23,25,27,30,31/03	11412	41	42*,45/02;1,6,7,11,12,13,14,20/03	11520	40	31*,39,40,44,46,51/02;4,6,7,8,19/03
550	7	24,45/02;6/03	11352	36	3*,7,8,9,20,22,24,26,31/03	11415	5	42*,45/02;1,2,7,14,20/03	11521	26	32,35/02;9,19,24,28/03
601	4	6,8,27/03	11353	2	21*,24,25,26,35,38,43,45,49/02;4,5,7,18,20,21,26,27,31/03	11416	5	42,48/02;1,2,6,11,12,14,20/03	11523	21	32,35,52/02;5,9,19,24,28/03
602	6	47/02;6/03	11354	24	26*,31/03	11420	27	20*,21,22,25/03	11524	46	8*,11,12,13,15,17,19,20,22,28/03
603	6	47/02;10/03	11355	24	37*,40,51/02;22,25/03	11423	7	N20,N24,N39,N42/02;N4,N8,N15,N21,N22,N25/03	11525	6	N23,N39,N40,N44,N46,N51/02;N4,N6,N8,N24/03
605	4	6/03	11356	34	28,29,39,40,42,45,47,51/02;6,7,19,22,27,30/03	11424	18	14,25/03	11526	10	20/03*
606	1	17/03	11357	35	36*,37,40,42,51/02;6,9,19,21,23,24,25,26,27,31,32/03	11425	34	46*,49/02;4,25/03	11527	16	37/02;20/03
607	1	17/03	11358	51	23*,24,26,27,31,39,42,51/02;7,21,32/03	11426	35	31/02*	11531	21	31/02*;11/03
621	5	22/02	11359	11	22*,26,39/02	11427	33	2/03*	11532	20	37/02
622	9	20,47/02;6/03	11360	40	1*,2,5,6,8,19,23,24,25,26,27,29,30/03	11428	32	52/02*;6/03	11533	12	17/03*
623	9	47/02;19/03	11361	70	21*,23,24,25,26,30,31/03	11429	21	47/02*	11534	32	25,46/02
624	3	22/02	11362	4	N22,N23,N24,N28,N29,N31,N33,N36,N39,N40,N47/02;N2,N5,N6,N8,N19,N23,N24,N25,N26,N27,N29,N30/03	11430	25	17/03*	11535	15	40/02;4,7/03
632	8	24,45/02	11363	38	26*,29,35,38,40,43,49,51/02;4,5,7,18,19,20,21,22,24,26,27/03	11431	12	31/02*	11537	34	21*,23,26/03
702	5	7/03	11364	39	3*,4,5,8,9,18,19,21,23,25,26,27,30,33/03	11434	24	21/02*-15,21,22/03	11539	18	39,44,51/02;6/03
703	4	46,02/7/03	11365	17	52/02*-9,32/03	11435	13	N20/02;N8,N15,N21,N22/03	11541	33	8*,9,14,22/03
705	3	46,52/02	11366	7	48*,51/02;5,6,7,8,19,21,23,24,26,27,29,30/03	11438	11	7,8,21/03	11542	15	39/02
709	2	50/02;19,25/03	11367	31	25,33/02;19,21,23,26,30,33/03	11439	25	6,7,15,22/03	11543	22	29,39/02;8/03
1113A		20*,21,22,25/03	11368	22	38/02*;19,21,23,30,33/03	11441	39	36/02;6,7,15,20/03	11544	37	36/02*;8/03
1114A		23,39/02;4,9,11,12,13/03				11442	33	6,7,15/03	11545	60	45*,47/02;6,8,14,22,23,24/03
1115A		1*,2,5,6,8,19,23,24,25,26,27,29,30/03				11443	30	7,15/03	11547	35	22*,25,29,30,37,47/02;6,8,14,22,23/03
1116A		2*,5,6,7,8,9,14,17,18,19,21,22,23,24,25,26,27,29,30,31,32/03				11444	30	36/02;7,15,20/03	11548	38	47/02*
1117A		28*,30,31,32/03				11445	16	7/03	11550	28	17/03*
11004	7	22,26,28,31,37,39,40,42,43,45,47,51/02;5,6,7,8,9,14,18,21,22,23,24,25,26,27,29,30,32/03				11446	8	26*,28/02;15,22,25/03	11553	28	8/03*
11006	30	28*,36,39,40/02;2,6,19,21,23,24,25,27,29,33/03				11451	31	20*,22,25/03	11555	38	36/02*-7,24/03
11009	36	23,24,32,35,44,51/02;6,12,19/03				11452	21	31/02*	12200	47	38*,42,52/02;7,12,18/03
11013	44	20,35,50/02;6,7,8,9,13,16,21,22,23,24,25,31/03				11453	16	7/03	12201	25	N23,N42,N52/02;N7,N12,N18,N24,N32/03
11300	39	28*,30,31,32/03				11460	38	36*,50/02;6,13,15,21,23,25,31/03	12204	35	10*,33/03
11301	23	21,37/02;16,24,32/03				11461	5	28/02;7,15,25/03	12205	27	37*,43,52/02;18,28,33/03
11302	29	34*,37/02;16,24/03				11462	24	22*,28/02;22,25/03	12206	29	31*,33,38,46/02;10,28,33/03
11305	1	N21,N26,N29,N36,N46/02;N1,N6,N7,N32/03				11463	17	24/03*	12207	20	23,30,52/02;18/03
11307	36	28,31/02;22,24,27/03				11464	16	28/02;7,25/03	12208	9	23*,28/03
11308	22	3*,7,10,23,25,32/03				11465	36	52/02*-22/03	12210	36	8*,33/03
11309	36	21,26,28,36,46/02;1,6,7,22,24,25,32/03				11466	37	30*,31/03	12211	41	10/03*
11310	1	N21,N46/02;N22,N23,N32/03				11467	37	47*,50/02;4,12,21,23/03	12214	44	14*,19/03
11311	23	21,46/02;26/03				11468	39	42*,43,49/02	12216	27	47/02*-19/03
11312	3	21,26,28,36,46/02;1,6,7,22,23,32/03				11469	5	24,27,35,50/02;7,9,12,21,23,31/03			
11313	22	31/02;22,27/03				11470	36	10*,12/03			

CHARTS AFFECTED BY NOTICE TO MARINERS  
NM 20/02 THROUGH NM 33/03

Note: N indicates Not For Sale; P indicates Preliminary; T indicates Temporary;  
\* indicates New Edition/New Chart; \*\* indicates Chart Canceled

Chart No.	Ed. No.	Notice to Mariners No.	Chart No.	Ed. No.	Notice to Mariners No.	Chart No.	Ed. No.	Notice to Mariners No.	Chart No.	Ed. No.	Notice to Mariners No.
12221	73	52/02*;1,4,6,7,18,19,25,28,33/03	12354	39	22,28,33,37,45/02;2,6,7,10,23,32/03	13296	25	43/02;27/03	14777		N31/02*
12222	44	26*,28,33/03	12358	19	46*,49/02;1,7,10/03	13298	10	43,52/02	14782	24	21,22/02
12224	23	8*,33/03	12362	16	49/02	13301	20	25,33,51/02;23/03	14785	16	22/02
12225	54	22*,33/03	12363	39	28,44/02;6,23,27,32/03	13302	21	20,25,41/02;2,7,9,32/03	14786	13	24/02
12226	16	22,30/02;7/03	12364	34	20*,23,25,27,32/03	13303	12	48/02*;7,9/03	14800	9	23/02
12228	29	43/02*	12365	26	6,23/03	13305	28	25,40,41,49/02;2,7,9/03	14803	26	5/03
12230	60	30/03*	12366	27	51/02;20,27/03	13307	10	23,28/03	14804	24	20/02*;5/03
12231	26	31,35,46/02;7,30/03	12368	26	42/02*;24,25/03	13308	11	40/02	14813	21	2/03*
12233	35	3*,4,5,6,14/03	12369	25	31*,44/02;32/03	13309	28	42/02*-9,32/03	14816	23	5/03
12235	29	30,31,47/02;4,6,7,17,33/03	12370	18	39/02*	13312	21	10/03*	14820	19	11/03*
12237	26	27,47/02;17,25/03	12371	23	27/03*	13313	19	21,25,41,49,52/02;6,9/03	14822	31	10/03*
12238	37	46/02*;1,4,7,19,25/03	12372	31	45*,47,48/02;2,5,6,23,25/03	13315	11	49/02	14823	30	1/03*
12241	21	34,44/02;7/03	12373	14	2/03	13316	22	28/03*	14824	25	24/02
12245	62	30*,33/03	12375	21	22/02	13318	18	38*,41,52/02;5,6,21/03	14826	27	4/03*
12248	39	30,33,40,50/02;4,5,6,8,15,22,30,33/03	12377	14	22,25,37/02	13321	9	20/03*	14829	5	21/02
12251	23	35/02;4,6,7,15,26/03	12378	14	2,13,23/03	13323	7	5/03	14830	30	31/03*
12252	23	33,34/02;4,7,10,15,17,30/03	12401	7	31*,47/02;2,13,33/03	13324	13	41,52/02;2/03	14832	34	52/02*
12253	42	33,38,42,46,50/02;10,13,28,30,33/03	12402	8	31*,33,47/02;13/03	13325	14	2,29/03	14833	25	20,26/02
12254	43	38*,43,44/02;30/03	13000		N21,N25,N48,N49/02;N21,N26,N29/03	13326	12	41,43/02	14835	31	39/02
12255	15	44/02;30/03	13003	46	9*,12,18,23,29/03	13392	2	6/03	14836	27	42/02*
12256	13	33,44/02;24,30/03	13006	30	39*,44,48,49,50/02;1,5,9,17,18,P21,23,26,29/03	13394	3	39/02*-9,21/03	14837	27	26/02*;3/03
12261	28	37*,44/02;7,18,22/03	13009	30	42*,48,49/02;1,9,18,23/03	13396	4	9,19,21/03	14838	3	52/02*
12263	51	38/02*;7,18,20,24,25,30/03	13200	33	25,37,48/02;7,9,18/03	13398	3	36/02	14839	36	9/03*
12264	28	38/02*;7/03	13201	10	N25,N37,N48/02;N9,N18/03	14002	57	21/02;32/03	14842	12	23,39/02;2,4/03
12266	27	30/02;20,30/03	13203	12	37/02	14003	6	25,48,49/02;5,9,12,29/03	14843	22	23,39,51/02
12268	10	22/02*	13205	36	37,42,45,48/02;1,5,23/03	14008	76	21/02	14844	31	4/03
12270	32	9*,18,24,25,33/03	13209	23	37/02;23/03	14010	5	21,35/02;26,32/03	14845	26	4/03
12272	29	26*,27,36,45/02;13,16,30,33/03	13211	13	21,23,47/02	14024	5	33,36,39/02;12,22/03	14846	11	23,24,39,40/02;2/03
12273	53	26*,31,36,45,50/02;5,15,17,19,30,33/03	13212	35	9*,13/03	14040	65	40/02	14847	30	24,40/02
12274	33	37*,50/02;5,15,17,30,33/03	13213	40	14*,25/03	14043	7	21,26/03	14848	56	23,24,31/02;9,17,21,22/03
12277	31	26*,50/02;8/03	13214	27	34*,45,48/02;5/03	14044	44	6/03	14850	51	21*,23/02;7,21/03
12278	72	26*,36,45/02;19,25,30,33/03	13215	17	45,48/02;1,5/03	14061	27	6,9/03	14852	45	19*,21/03
12280	3	37*,43,45,46,47,50,52/02;1,6,7,18,28,33/03	13216	1	N48/02	14062	17	32/03	14853	14	26/03*
12281	49	12,19,25/03	13218	38	29,42,45,51/02;5/03	14066	19	6/03	14854	13	24/02;17/03
12282	33	31*,44/02;7,8,18,19,25,33/03	13221	53	29,44,51/02;2,5,7,27/03	14067	11	6/03	14860	35	21,24/02
12283	24	8,18,25/03	13223	36	52/02;2/03	14083	30	33/02	14862	28	26/02*
12284	15	7/03	13224	36	44/02;5,27/03	14087	58	33/02	14863	30	24/02
12285	35	11*,14,19,22/03	13226	5	44/02;6,7/03	14088	10	41/02*	14864	26	24,37/02
12286	29	2*,4,6/03	13227	13	7/03	14089	29	41/02*	14865	16	4/03
12288	19	27/02	13228	11	51,52/02	14090	2	33/02	14867	25	32/02
12289	48	10*,19,22/03	13229	27	39,42,45,52/02;1,7,19/03	14091	6	41/02*	14871	2	21/02
12300	43	19/03*	13230	46	2*,7,19/03	14110	42	32/03	14872	3	21/02
12301	21	N20*,N28,N29,N37,N39,N42,N45/02;N5,N17/03	13232	4	39,42/02	14111	7	14,32/03	14873	2	35/02
12304	43	21*,26/03	13233	16	10/03	14112	5	32/03	14880	30	33/02;4/03
12311	41	28,31,42,50,52/02;8,24,26/03	13236	29	45/02;1,7,19/03	14144	29	21/02	14881	31	28*,33/02
12312	52	10*,15,24,32/03	13237	39	27/03*	14146	2	32/03	14883	42	23/02
12313	48	21,27,31,33,43,52/02	13241	15	21*,34,42/02	14151	2	37/02;32/03	14885	20	51/02
12314	30	46*,50/02;5,25,33/03	13242	39	22*,48/02;7,32/03	14169	2	32/03	14901	14	52/02*;5/03
12316	29	2*,6,32/03	13243	36	26,27/02;8/03	14180	38	21/02	14902	28	24,25,31/02;4/03
12317	31	26,37,50/02	13244	12	22/03*	14184		N32/03	14903	23	31/03*
12318	41	9*,32/03	13245	18	3*,8/03	14208	28	40/02	14905	25	31,32,46/02
12323	23	40/02;4/03	13260	38	28*,36,43,48,49,50/02;1,7,9,18,P21,23,26,29,32/03	14221	26	40,46/02	14909	29	31,35,37/02;5/03
12324	30	2*,8/03	13263	7	N20,N21,N25,N27,N36,N43,N48,N49/02;N1,N7,N9,N18,NP21,N23,N26,N29/03	14222	16	46/02	14906	23	5/03
12326	48	27,28/02;4,8,17,19/03	13264	103	21,36,49/02;9,P21,26,29/03	14223	18	3,16/03	14910	23	17/03*
12327	96	1*,2,8,12,13,14,16,18,19,23,29,33/03	13267	30	27,52/02;1,7,9/03	14225	17	38/02;16/03	14911	20	4/03
12331	30	8*,13,14,18,33/03	13270	59	33,34,40,43/02;1,2,7,12/03	14226	32	40/02;6/03	14912	17	31/03*
12332	21	22,43,46/02;13,18/03	13272	47	28,40/02;8,25/03	14227	28	40/02;6/03	14913	18	31/03*
12333	32	46*,47/02;5,12,16,18,23,29/03	13274	24	27,45,52/02;1,2,16,32/03	14228	11	40/02;6,32/03	14915	25	28/03*
12334	66	30/03*	13275	27	27,45,52/02;1,2,7,16/03	14242	13	34/02	14916	10	45/02*;17/03
12335	39	1,8,23/03	13276	21	27,52/02	14243	8	34/02	14917	23	3/03
12337	22	20,28,31,45/02;13,18/03	13278	25	1,9,32/03	14244	5	16/03	14918	26	25/02;17/03
12338	9	21/03*	13279	30	20*,32/03	14259	3	32/03	14919	27	24/02
12339	43	23/03	13282	11	21/03*	14260	47	35/02;26,32/03	14922	19	26*,51/02;9/03
12341	25	22/02*-21/03	13283	18	1,9/03	14263	15	26,32/03	14924	27	28*,32/02;5/03
12343	18	37/02*;7,21,27/03	13285	10	20/03	14280	37	35/02	14926	10	32/03*
12345	10	42/02*-21/03	13286	29	39*,40,50/02;1,9/03	14310	2	52/02;12,30/03	14927	24	21*,31,32,35,37/02
12347	29	25/02;27,29/03	13288	40	20,23,29,36,43,50,51/02;29/03	14329	5	32/03	14928	21	4/03*
12348	33	25/02;27,29/03	13290	34	20,36,40,43,50,51/02;7,16,29/03	14340	25	26,33,37,40,52/02;12,22,30/03	14929	24	14/03*
12349	33	25/02;27,29/03	13292	36	20*,36,40/02;7,16,29/03	14341	5	12/03	14930	24	45/02
12350	57	39*,49/02;29/03	13293	33	26*,29,43,51/02;14,27/03	14342	20	52/02;30/03	14931	24	35/02*
12352	29	34/02;17/03	13295	11	2*,14/03	14344	2	37,40/02	14932	23	26/03*
						14345	5	37,40/02;12,22/03	14933	24	35*,37/02
						14354	2	32/03	14934	27	17*,26/03
						14357		N52/02	14937	24	52/02*-2,17/03
						14358		N36/02	14942	25	35/02
						14360	36	26,33,36/02	14963	20	51/02
						14386	3	36/02	14965	21	11/03*
						14415	4	33/02	14966	25	14*,21/03
						14500	27	52/02*	14967	22	5/03
						14758		N32/03	14970	25	40,46,51/02
						14769		N31/02*	14972	25	21/02
						14773	16				

## SECTION I

NM 33/03

CHARTS AFFECTED BY NOTICE TO MARINERS  
NM 20/02 THROUGH NM 33/03

Note: N indicates Not For Sale; P indicates Preliminary; T indicates Temporary;  
\* indicates New Edition/New Chart; \*\* indicates Chart Canceled

Chart No.	Ed. No.	Notice to Mariners No.	Chart No.	Ed. No.	Notice to Mariners No.	Chart No.	Ed. No.	Notice to Mariners No.	Chart No.	Ed. No.	Notice to Mariners No.
15313	1	15/03	17320	15	13,29/03	18400	43	2*,6,16,18,22,30,32/03	18626	15	37/02;10/03
15562		N41/02;N16/03	17323	10	13,22,29/03	18403	21	6,20/03	18640	24	24/02;26/03
15569		N23/03	17325	7	29/03	18405	12	43/02;16/03	18643	17	26*,33/03
15570		N23/03	17327	20	5/03	18406	5	16/03	18645	24	50/02;33/03
15585		N14/03	17360	33	31/03*	18411		N16,N20/03	18647	15	2/03*
15744		N30/02	17379	1	20/02	18412	10	20/03	18649	62	20,23,33,36,38,41/02;4,6,21,26,33/03
15880		N41/02	17382	15	20/03*	18413	15	20,22/03	18650	51	28*,33,38,41/02;4,21,26,33/03
15954		N47/02*	17383	1	31*,49/02;8/03	18414	9	20/03	18651	42	15/03*
16003	16	13/03	17384	7	44/02	18415	8	42/02;7,22,32/03	18652	31	20,23,26,27,30,33,38,41,49/02;4,6,7,12,16,21,26,28,33/03
16004	11	13,17/03	17385	14	14/03*	18416	6	P44,48/02;22/03	18653	9	36,38,41/02;4,6,21/03
16006	33	6,32/03	17400	16	36/02;10,12/03	18418	6	15/03	18654	42	28*,38,49/02;12,16/03
16011	35	38/02;8,29,31,32/03	17401	10	1/03	18419	11	47/02;12/03	18655	58	49/02;12,16/03
16012	21	38/02	17402	10	46/02*	18420	1	22/03	18656	53	19*,21,33/03
16013	28	22,29,52/02;21,29,32/03	17405	14	12,25/03	18421	45	2*,18,20,22,32/03	18657	18	26,27,30/02;4,21/03
16042	7	39/02*	17406	6	25/03	18423	33	1*,5,7,9,15,18,30,32/03	18658	29	23,26,27/02;4,21,33/03
16061	8	27,37,49/02;13,17/03	17409	10	39/02*	18424	25	7/03	18659	14	26,30,49/02;7,16,21/03
16300	8	52/02;3,8/03	17413	2	43,50/02;10/03	18427	21	35/02*;7,19/03	18660	2	29/03*
16305	9	8/03	17414	3	41/02	18429	9	3*,22/03	18661	27	15*,16/03
16322	7	8/03	17416	3	10,14/03	18430	7	28/02*;6,7,22/03	18662	20	30/02;7/03
16363	12	38/02*	17420	26	36,37,42,43,50/02;1,10,12,14,20/03	18431	6	2/03*	18663	5	14/03*
16381	8	8,25/03	17422	8	52/02*	18432	5	14/03*	18665	1	26/02;21,33/03
16435	5	27/02	17426	13	37/02;1,16,20/03	18433	5	2*,22,32/03	18680	30	6,13,33/03
16440	13	37/02	17427	7	21/03	18434	4	26,P44,48/02;6,9/03	18685	31	25/02;6,12/03
16441	7	37/02	17428	7	5/03	18440	26	3*,15,18,22,28,30,32/03	18687	13	8/03*
16442	6	37/02	17429	2	N38/02*	18441	42	30*,32,39/02;6,7,9,15,18,28,30,32/03	18700	21	34,36,37/02;4,6,10,13,21,33/03
16480	10	38/02	17430	10	5/03	18444	15	39/02;6/03	18703	24	36,37/02;4,27,33/03
16500	9	9,33/03	17434	11	5/03	18445	15	39/02	18704	12	37/02
16520	21	2,31,33/03	17436	6	20/03	18446	15	6,7,9,18,19/03	18705	31	23,35/02;4,6,10,12,25/03
16521	5	27/02	17437	8	21/03	18447	17	7/03	18712	11	35/02;6,10/03
16528	16	9,33/03	17438	12	50/02;10,14,15,21/03	18450	17	9/03*	18721	3	6/03
16529	14	50/02;9,33/03	17441	7	10,15/03	18453	24	14*,25/03	18724	1	22*,25/03
16530	6	50/02;33/03	17443	12	10/03	18455	2	N22,N39/02;N15/03	18725	27	32/03*
16535	12	2,21,31/03	17445	2	10,14/03	18458	15	19*,28/03	18740	39	20,23,34,37,45,50/02;5,6,12,25,27/03
16549	14	4,16/03	17446		N10/03	18459	5	N22,N32,N39/02;N9,N15,N28/03	18741	18	N25,N45,N50/02;N12,N27/03
16553	3	17/03	17460		N5/03	18460	11	2*,6,7/03	18744	30	37/02
16556	4	8/03*	17465	4	6,12/03	18464	23	24*,30/03	18746	34	20,23,34/02;5,13/03
16561	1	29/03	17470		N23/03	18465	35	2*,15,30/03	18749	38	20,23,25,27,40/02;5,6,16,21,26,28,31/03
16566	10	29/03	17471		N6/03	18468	17	7/03	18751	42	20,25,27,40/02;5,6,16,21,26,28,31/03
16568	12	39/02*	17472	4	5,14/03	18471	8	32/02;7,15,30,32/03	18754	16	36/02
16575	1	39/02	17480	4	43/02;5,10/03	18473	7	4*,18,19/03	18757	10	13/03
16576	3	42/02;6/03	17482		N7,N14/03	18474	7	45/02*;7,10,15,22,25/03	18758	6	35/02*;16,33/03
16580	11	39/02	17489	19	43/02	18476	4	22,32,39/02;7,9,28/03	18760	6	N23,N34,N35,N45,N50/02;N6,N25/03
16590	10	38/02*	17495	2	43/02	18477	5	7/03	18761	2	N20/02
16592	9	16/03	17503	4	43/02	18480	29	2*,6,7/03	18762	15	20/02
16593	11	14/03*	17513		N42,N43/02;N15/03	18484	10	28,40/02;15,29/03	18763	9	20/02
16594	13	2/03	17515	7	6,15,16/03	18485	15	2*,10,29/03	18765	15	25,45,50/02;12,27/03
16595	14	2/03	17517	8	6,15,16/03	18500	28	22,32,39/02;12,22,28/03	18766	7	25,45,50/02;12,27/03
16596	12	39/02*	17518	7	P44,48/02;16,18,20/03	18502	84	30*,32,39,42,49/02;9,21,28,29/03	18768	4	N25,N45,N50/02;N12,N27/03
16597	8	43/02	17519	13	16/03	18504	65	19/03*	18769	2	N20/02
16598	9	43/02	17520	2	N6,N16/03	18520	24	33,39/02;22/03	18772	47	21/03*
16599	6	43/02	17521		N15/03	18521	69	34*,39,49/02;4,10,12,21,22,24,29/03	18773	38	20,23,25,50/02;10,12,13,27,33/03
16603	7	42/02;6/03	17522		N15/03	18523	53	25,26,33/02;4,12/03	18774	10	35/02*;10,16/03
16604	11	22/02*	17523		N15/03	18524	33	26,28,31,33/02;4,6,10,24,29/03	18775	2	N20/02
16606	11	37/02*;21/03	17524		N12,N15/03	18525	33	28,31,33/02;4,9,29/03	19002	9	N23,N25,N37,N51/02;N16,N23,N29/03
16608	3	6/03	17525		N15/03	18526	55	28,31,33/02;4,18,29/03	19004	36	23,25,35,37,51/02;23,29,30/03
16640	24	21/03	17526		N15/03	18527	21	31/02	19007	16	51/02;16,23,29,30/03
16646	12	8/03	17528		N43/02;N6,N12/03	18528	10	52/02*;18/03	19008	4	16,23,29/03
16660	6	22,29,42/02;6,16/03	17541	3	43/02	18529	10	52/02*	19009	4	16,23,29/03
16663	6	22,25,29,42/02;6,16/03	17542	6	47/02	18530	20	26,31,34/02;9,10/03	19010	17	45*,51/02;23,29/03
16665	7	22,25,29,42/02;6,16/03	17543	17	41/02	18532	20	10/03	19013	16	25,51/02;29,30/03
16680	10	6,32/03	17545	13	43,47/02	18541	8	21/02*	19019	9	28/03*
16681	10	37/02*	17546	22	42,43,47/02;24/03	18548	5	8/03*	19320	16	23,27,35,37,51/02;5,16,23/03
16682	15	8*,17,19/03	17548	28	16/03	18558	37	39/02	19324	22	27,35/02;5,23/03
16683	9	3,6,17,32/03	17549	6	47/02;15/03	18561	11	33,39/02;10/03	19327	10	23/02;23/03
16700	27	21*,49,52/02;9,16,22,32/03	17550	4	42,43,P44,45,47,48,52/02	18580	21	26,33,38,39/02	19330	9	27/03
16701	18	21*,52/02;9,22,32/03	18000	8	45/02;6,10,21/03	18581	17	49/02*;4/03	19331	7	23/03
16702	10	38,52/02;1,9,13,22,32/03	18002	6	N45/02;N2,N6,N10,N21/03	18583	38	31,33,42,49/02;12/03	19339	1	N25,N35,N49,N51/02;N5,N13,N30/03
16705	19	49/02;16/03	18003	19	22/03*	18584	47	30,39,49/02;4,6,30/03	19340	26	25,35,49,51/02;5,13,29,30/03
16707	10	34,37/02;16,20/03	18005	4	N20,N34/02;N6,N10,N13,N21,N26/03	18587	68	25,30,33,39,42/02;4,6,9,10,21,27/03	19347	17	25/02;29/03
16708	25	37,49/02;16,20/03	18006	3	N6/03	18588	37	22/03*	19348	7	29/03
16709	22	49/02	18007	31	20,26,33,34,37,38,39,40,47,52/02;18,22,24,26/03	18600	14	33,37,38,40/02			
16712	1	16/03	18008	7	N20,N26,N33,N34,N37,N38,N39,N40,N47,N52/02;N18,N22,N24,N26/03	18601	13	10/03			
16713	2	49/02	18009	2	N34/02;N6,N13,N26/03	18602	12	26/03*			
16741	9	46/02	18010	20	33,34,37,38,39,40/02;6,13,26,33/03	18603	16	9*/10/03			
16760	10	51/02;28/03	18020	36	20,34,37,45/02;6,10,13,21,26/03	18620	23	35/02*			
16761	16	28/03	18022	33	23,34,37,45/02;6,10,13,21,25,33/03	18622	52	26,28,49/02;21,25,27/03			
16762	9	26/02*				18623	11	34/02			
17003	4	47,52/02;24/03									
17005	10	41,45,47,52/02;24/03									
17008	12	43/02									
17300	30	52/02*;21/03									
17302	18	21*,51/02									
17303	9	37/02									
17315	23	2*,16,21,25/03									
17316	20	28/02*;3,25/03									

CHARTS AFFECTED BY NOTICE TO MARINERS  
NM 20/02 THROUGH NM 33/03

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\* indicates New Edition/New Chart; \*\* indicates Chart Canceled

Chart No.	Ed. No.	Notice to Mariners No.	Chart No.	Ed. No.	Notice to Mariners No.	Chart No.	Ed. No.	Notice to Mariners No.	Chart No.	Ed. No.	Notice to Mariners No.
19350	11	27/02	22120	3	23,30,34,36,39,41,43,52/02;29,32/03	22427	1	N43,N44,N46,N50/02;N11,N23,N25,N26/03	24250	5	30,39/02;7/03
19351	9	25/02	22121	9	23,30,34,36,44,52/02;29,32/03	22429		N24,N46/02;N10,N14,N17,N19,N27/03	24251	23	24,34,43/02;6/03
19353	12	27/03							24252	5	30,39,43/02;6/03
19357	22	42*,49,51/02;5,13,30/03	22124	2	34,52/02;6,29,32/03	22430	6	19/03	24260	5	34/02
19358	20	28/02*	22125	1	36/02	22433	3	39,47/02;11,14/03	24270	3	24,27/02;17,29/03
19359	10	12,16/03	22126	1	36/02	22436	2	39/02;10,14/03	24271	14	17,29/03
19360	1	N37,N51/02	22130	2	44/02;14,17,29,32/03	22440	1	19/03	24274	2	17,29/03
19361	7	30/03	22138	2	41,44,48/02;6/03	22471	31	44/02	24290	3	36,43/02
19362	12	49/02	22140	2	30,34,36,44/02;25/03	22481	35	43,44/02;19/03	24291	4	36/02
19366	36	31,49/02;5/03	22142	2	39,41,43/02;25/03	22482	16	44,50/02;23/03	24292	4	36/02
19367	37	22,31,49/02;10/03	22143	4	26*,29/03	22521	3	12,17/03	24293	6	32,36/02
19369	5	22,31,49/02;10/03	22145	2	N41/02;N25/03	22523	3	12,17/03	24294	22	36/02
19379	1	N25,N51/02;N5,N13,N30/03	22160	2	30,34,39,41,48,52/02;25/03	22529	3	12,17/03	24311	4	27/02
19380	14	25,51/02;5,13,30/03				22531	2	12,17/03	24312	4	27/02
19381	8	25,49,51/02;26/03	22170	3	30,39/02;6/03	23010	4	27,38/02	24320	4	27,28,34,43/02;6,17/03
19382	15	26/03	22172	8	48/02*;4,6,29/03	23020	4	22/03	24321	3	6/03
19383	17	49/02;5/03	22173	36	48/02*;6,17,29/03	23023	4	27/02	24322	6	28,34/02;6,17/03
19385	7	20/02*	22180	2	30,34/02;32/03	23030	6	27,38/02;21,22/03	24350	2	31,51/02;18/03
19387	9	N25/02	22181	16	27,39,41/02;29/03	23115	3	27/02	24355	2	51/02;25/03
19401	8	10/03*	22182	6	30,34/02;14,29/03	23121	7	30/02;17,20/03	24360	1	25/03
19402	6	9/03*	22183	3	20/02;32/03	23122	8	23,30,33/02	24370	1	34/02
19421	7	8/03*	22190	2	30/02;29/03	23123	3	30/02	24375	2	34/02
19441	7	28/03*	22205	2	12,18/03	23124	3	N30/02;N17,N20/03	24380	2	35/02
19442	5	14*,26/03	22221	20	20/02;12,31/03	23125	4	30/02;17/03	24388	2	35/02
19461	7	10/03*	22222	1	4,12,31/03	23126	6	N24/02*	24404	8	21,26,35,44,48/02
19483	6	11/03*	22225	2	12,18/03	23127	4	N24/02*	24405	10	26,35,36,44,48/02
21005	5	45/02;2/03	22233	29	13,18,25/03	23128	4	N24/02*	24406	30	20,26/02;2/03
21008	62	39,42,43,50/02;1,2/03	22250	2	42/02;12,18/03	23129	2	N24/02*	24408	21	36,44,48/02
21011	5	2/03	22251	11	12,28/03	23131	7	26,31/02;12,22/03	24410	2	21,44/02
21014	72	42,50,52/02;2,3,4/03	22259	4	20/02;20,24/03	23137	7	34/02;22/03	24430	5	39/02;8,11,31/03
21017	50	23,41,50/02;4,5,6,9/03	22263	1	26/03	23141	7	34/02;22/03	24431	14	39/02;31/03
21020	42	23,41/02;5,6,7/03	22264	2	20,42/02;13,18,20,24,26/03	23142	10	8/03	24434	4	39/02
21021	3	45/02;13/03				23150	10	20,37,52/02	24450	3	26/03
21023	41	34/02;7,8,9/03	22275	3	20,42/02;12,18,26/03	23151	3	12/03	24452	7	26/02
21033	46	20,32/02;1,16/03	22281	9	12,18/03	23152	3	37/02;12/03	24453	5	26/03
21036	7	1,16/03	22282	17	12/03	23153	8	20,31/02;12,13/03	24454	5	5,26/03
21120	27	47,50,51,52/02	22283	3	N12/03	24000	39	27,29/02	24460	4	39,47/02;15,29,32/03
21121	18	47/02	22284	7	N10/03	24004	36	29,30/02	24461	4	16/03
21122	5	47/02	22290	4	20/02;18,30/03	24016	53	30,39/02	24462	5	47/02;16,29/03
21125	13	51,52/02	22293	15	20/02;18,26/03	24020	47	27/02	24463	6	24,39/02;12,15,25,26/03
21126	1	50/02	22294	15	12/03	24024	46	18,25/03	24465	6	23,33,47/02
21140	1	45,50/02;12,27/03	22305	2	18,24,30/03	24028	6	23,48/02	24469	1	20,46,47/02;13/03
21141	23	48/02	22311	19	8/03	24050	11	27,31,34,38,49/02;20,31,32,33/03	24470	4	28,39,47/02
21160	1	45/02	22312	2	13,30/03	24052	15	31,37,38/02;14,19,21,30/03	24471	8	28,47/02
21161	19	43,48/02	22313	2	44/02;8,18/03				24480	1	25,27,41,44,45,49/02;24,27/03
21180	1	2,7/03	22314	1	44/02	24053	16	24/02;19/03	24482	2	24,49/02;31/03
21182	34	39/02	22322	11	33/03**	24055	6	37,49/02;14,19,21/03	24483	2	20,24,49/02
21200	1	2/03	22331	2	N10,N19,N24/03	24057	4	31,38,49/02;20,30,33/03	24484	3	24,49/02;31/03
21301	13	3,12/03	22335	4	19/03	24058	2	31,32,37,38/02;19,22,28,29,30/03	24490	3	24,31/02;25,27/03
21342	28	41,44/02	22341	9	43/02;11,21,29/03				24491	3	31/02;27/03
21384	3	23/02;6/03	22342	9	21,29/03	24060	2	34/02;17,32/03	24492	20	31,46/02
21401	20	7/03	22343	1	N43/02;N10,N11,N21/03	24080	5	29/02;17/03	24501	3	27/02;27/03
21441	27	34,44/02	22344	6	N23/03*	24091	6	26/02;6,21/03	24502	6	46/02;27/03
21478	3	9,16/03	22345	11	42/02;24/03	24092	14	26/02;6/03	24504	7	41,45,46/02
21510	1	9,16/03	22347	6	N23/03*	24100	5	27,29/02	24507	3	22/03*
21520	1	29/03	22351	1	N43/02;N12/03	24101	3	37,41/02	24509	2	45,50/02;15,25/03
21521	14	29/03	22352	6	12,19,24/03	24102	3	37,41/02	24510	2	41,45,46,50/02
21563	3	45/02	22360	2	19/03	24110	3	27,29/02	24511	2	24/03
21601	4	31/03	22361	2	N10,N30,N32,N33/03	24130	14	24,29/02;5/03	24512	3	25,29,44,46/02;24,25/03
21602	1	28/02	22370	2	15,19,26,30,33/03	24133	6	31/03	24513	18	46/02
21603	9	5,31/03	22371	5	30,32,33/03	24140	18	32/02	24517	2	46,49/02;25/03
21605	7	31/03	22373	1	N50/02;N10,N24,N30,N32,N33/03	24141	4	5/03	25001	7	15/03
21661	12	6/03				24142	43	5,6/03	25017	5	15,25,31/03
22004	38	20,23,30,32,34,36,39,41,43,52/02;16,29/03	22375		N10,N15,N26/03	24149	1	32/02	25018	9	15,25,31/03
			22377	1	N10,N13/03	24150	27	27,29,30,32/02	25400	1	23,26,35,48/02
22008	35	30,34,36,39,41,43,44,48,52/02;6,14,17,29,32/03	22379	1	N50/02;N10,N30,N32/03	24151	4	29,32/02	25480	1	20,42,46/02
			22381		N43/02	24152	2	30/02	25481	25	26/02
22012	31	30,34/02;6,29,32/03	22395	2	42/02;15,19,22,26,30/03	24153	6	30/02	25485	45	23,26/02
22032	20	19/03	22401	4	N23*,N30/03	24156	2	22/02	25487	2	23,26/02
22036	28	47/02	22403	1	N45/02	24159	1	27/02	25524	43	33/02;1,5,20,24,26,32/03
22050	4	12,26/03	22404	15	46/02	24160	21	27,28/02	25525	17	1,5,26/03
22051	18	28/02	22406	1	N1/03	24161	11	27,42/02;7,28,32/03	25526	2	33/02;24,32/03
22052	6	28,46/02;25/03	22407	1	N4,N11,N18,N30/03	24162	9	22,27,42/02;6,7,28,32/03	25527	31	33/02;24,32/03
22080	3	20,32/02	22408	1	N10,N21/03	24164	6	27/02	25528	5	21,42/02
22082	4	13,25/03	22409	4	N45/02;N10,N17,N22/03	24170	14	5,6/03	25550	2	24/02;21/03
22084	4	42/02	22410	32	43,44,46/02;19,23/03	24171	19	5,6/03	25563	50	33/02;14,18,21/03
22090	2	30,32,43/02;4,17/03	22413		N45/02;N22/03	24172	4	5,6/03	25565	7	33/02
22100	3	20,32/02;12/03	22417	1	N10,N25/03	24180	15	8/03	25566	27	18,30/03
22101	19	20,32,43/02	22418	2	24,36,44,46/02;19/03	24202	6	31/03	25567	16	21/03
22102	19	17/03	22420	2	4,11,15,19,30/03	24211	7	24/02	25570	3	31/02;16/03
22109	3	17/03	22421	4	N43,N44,N46/02;N11,N23,N25,N26,N27/03	24220	14	27,28/02	25575	4	31/02
22111	4	32/02;17/03				24222	3	27/02	25600	47	24/02;25,27/03
22112	3	23,25,30,32,43/02;17/03	22423	3	N11,N25,N27/03	24230	20	30/02	25601	34	20/02
22113	8	23,25,30/02;12,17/03	22424		N27/03	24233	15	36,43/02	25607	4	24,39/02
22114	5	32,42,43/02;17,33/03	22425	2	44,46/02	24234	3	30/02	25608	21	16,26/03
						24240	5	30,39/02;7/03	25609	5	30/02

## SECTION I

NM 33/03

CHARTS AFFECTED BY NOTICE TO MARINERS  
NM 20/02 THROUGH NM 33/03

Note: N indicates Not For Sale; P indicates Preliminary; T indicates Temporary;  
\* indicates New Edition/New Chart; \*\* indicates Chart Canceled

Chart No.	Ed. No.	Notice to Mariners No.	Chart No.	Ed. No.	Notice to Mariners No.	Chart No.	Ed. No.	Notice to Mariners No.	Chart No.	Ed. No.	Notice to Mariners No.
25613	2	30/02;25,27/03	28006	1	8/03	35298	7	27/02	37080	3	24,27,30,33,34,38,40,42,44,45,46,51/02;1,4,7,9,14,15,18,20,21,22/03
25640	40	28/02*;15,25,31/03	28050	3	28,34/02;26/03	35299	9	13/03	37081	23	20,21,28,38,43,50/02
25641	26	30/02	28084	4	17/03**	35301	6	17/03	37082	9	28,44,50/02;11/03
25644	13	20/03*	28150	3	8/03	35302	7	17/03	37083	8	20,22/02
25646	7	N42/02	28162	29	28/02	35303	7	40/02;17/03	37084	9	20,22,38,40,43/02
25649	18	30,35/02;4,31/03	28164	17	28/02	35308	5	10/03	37085	8	38,50/02;4/03
25650	33	22*,30/02;25,30,31/03	28190	2	41,43,45,46/02;18/03	35310	2	22/02	37087	7	38,40/02
25653	13	8/03*	28196	4	41,43,45/02;18/03	35330	2	22,38,41/02	37088	9	5/03
25659	9	20/03*	28197	4	45/02;18/03	35350	2	38,41/02	37089	12	21,28/02;4,13/03
25663	27	17,30/03	28202	22	41,44/02	35400	11	30/02	37090	8	27,32,45,51/02;1,7,9,14,16,22/03
25664	15	17,30/03	28210	2	33,35,39,41/02	35402	3	38/02	37095	3	24,28,32/02;1,7,9,11,14,15,16,20,22,32/03
25666	17	17/03	28220	2	35,39/02	35420	13	24,30/02	37101	9	27/02
25667	20	15/03	28221	18	33,37,39/02;5/03	35421	14	31/02	37103	9	27,29/02
25668	18	48/02;13/03	28223	4	35,39/02	35423	6	31/02	37104	3	41/02
25670	41	26,38,48,49/02;4,5,13,20/03	28260	30	35,37/02	35424	3	30/02	37106	4	32/03
			28263	3	35,37/02	36005	2	24,27,28,34,36,38,45,46/02;P12,14,17,24,25,27,31/03	37110	11	24,27,28,29,47/02;20,25,31,32/03
25671	18	21/03*	28264	3	35,37/02	6010	27	20,22,24,38/02;5,15,16,20,23/03	37112	1	47/02
25673	15	28,42/02	28265	3	37/02	36015	2	24,27,36,46/02;27/03	37115	2	27,28,29,33,47/02;7,25,31,32/03
25675	9	20/03*	28281	32	36/02	36040	16	30/02;1,15/03	37119	2	43/02
25677	20	32/03*	28282	2	35/02	36046	5	38/02	37120	2	24,27,29,39,42,49,51/02;4,6,21,23,24,25,26,27,30,32/03
25679	10	20/03*	28300	1	23,39,50/02	36060	17	31,38/02;5,8,20,21/03	37121	11	24,27,29,31/02;25/03
25681	16	28/03*	28302	16	31,33,39,40/02;12/03	36061	5	46/02;20/03	37122	12	48/02;19,31/03
25683	18	32/03*	28310	2	23,31,33,35,39/02	36062	11	40*,46/02	37123	9	49/02;6,20/03
25685	9	22/03*	28320	6	33/02	36098	6	5/03	37125	15	24,42,49/02;6,9,20/03
25687	12	30/03*	28321	36	29/02	36102	6	13/03	37126	8	41/02
25700	3	15/03	28323	2	27,29/02	36103	9	13/03	37127	11	49/02;4,6,20/03
25720	3	33/02	28325	2	27,29/02;5/03	36104	6	13/03	37129	6	39,42,49/02;4,6,20,23,24,30/03
25800	3	24,36/02	28330	2	27/02	36106	7	47/02;5,13/03	37133	4	44/02
25841	9	24,36/02	29002	9	18,29/03	36118	3	5/03	37134	5	38/02
25848	25	5,13,15/03	29015	5	22/02;16/03	36120	9	20,22,31,46/02;5,8,16,23,27/03	37136	6	38,46,50,51/02;30/03
25849	13	42/02;12/03	29107	2	29/03	36122	12	21/02	37137	6	46,48/02;30/03
26001	4	9/03	29121	5	32/02	36123	25	21,46/02;11,16/03	37139	8	23/02;1/03
26050	1	34/02;26/03	29122	5	32/02	36124	18	16/03	37140	33	21,22,24,27,29,31,35,49,51/02;4,6,16,24,25,30,32/03
26060	1	49/02	29127	4	29/03	36125	7	4,30/03	37141	29	20,21,23,36,40,48,51/02;1,4,12,17,19,24,27,31/03
26068	11	18/03	29141	3	29/03	36137	4	38/02	37145	23	46,50/02;4/03
26081	8	46/02;16/03	29142	3	7/03	36138	3	39/02;4/03	37147	15	21,35,36,40/02;1,10,12,16,17,19,25/03
26083	14	29/02	35000	26	23,24,47,48/02;14/03	36139	4	4/03	37148	13	21,35,38/02;4,10,11,27/03
26100	4	31/03	35008	21	45,48,50/02;5,25,27/03	36140	12	21,22,24,36,41/02;4,10,27/03	37149	10	44/02
26122	30	22/03*	35009	19	40,41,45/02;5,10,14/03	36141	7	4/03	37150	8	21,22,31/02;14,19,26,27,32,33/03
26127	21	49/02;5/03	35011	2	48/02;1,25/03	36142	6	24/02	37161	14	21,22,31,34,43/02;1,14,19,24/03
26128	50	49/02;5/03	35016	17	29/02	36143	4	34/02;5,30/03	37162	12	26/02;21,26,27,30,32,33/03
26129	11	26/02	35031	3	22/02	36161	10	20,24,34,44,45,47,50/02;4,10,18/03	37163	19	32/03
26142	10	24,33/02	35036	21	24,30,36/02;10,15,27/03	36162	10	20,35,45,47,50/02;4,18/03	37164	4	23,26,27,30,32/03
26210	2	24,36/02	35040	18	21,45/02;4,8,10,14,21/03	36163	13	20,31,34,35,38,44,45,47,50/02;4,18/03	37165	2	20,21,34,36/02;10,12,13,15,21,23,26,27,28,30,32/03
26218	2	31/03	35041	8	21,35/02;4/03	36164	7	34,38,44,46/02;8,15/03	37166	2	26/02;14,19,21,26,27,30,32,33/03
26219	5	31/03	35042	9	21,27,44/02;4,14/03	36165	6	20,22,24,28,36,44/02;10,27,30/03	37170	11	38/02;14,19/03
26229	11	31/03	35044	9	38/02	36167	2	24,40/02	37175	2	5,27,30/03
26230	12	31/03	35047	5	35/02	36173	1	40/02	37180	20	21,38/02;27,31/03
26240	7	23/02;9/03	35060	14	22,40,41/02;10,14/03	36180	23	20,21,22,36,40,50/02;4,27/03	37182	14	35,47,48/02;24,27/03
26244	3	9/03	35080	16	22,40/02	36181	18	20,21,22,36,40,50/02;4,4/03	37183	9	48,51/02;10,24/03
26245	16	51/02;15/03	35081	15	22,27/03	36182	6	20,36,40/02;27/03	37184	8	48/02;5/03
26259	2	51/02	35082	7	22,27/03	37000	22	23,28,47,48/02;14,23/03	37200	15	28,30/03
26260	5	24/02	35083	8	20/03	37005	16	23,41,45,47/02;5,12,13,15,23,28,29,30/03	37202	2	22,27/03
26261	27	8/03	35084	15	50/02	37010	23	23,26,41,45,47/02;10,12,13,13,15,19,23,27,28,29,30/03	37205	26	38,51/02;1,24,25,27,31,33/03
26262	3	8/03	35086	5	31/02;22/03	37025	26	38,51/02;1,24,25,27,31,33/03	37032	2	1,6,25,31/03
26280	7	23/02	35088	2	50/02	37033	2	47/02;33/03	37034	2	8,14,33/03
26282	6	22,23/03	35099	3	41/02	37041	15	20,27,50/02	37042	5	41,45/02
26290	1	21/03**	35100	14	40,45/02;5,30/03	37043	17	20,43/02	37044	16	45/02
26295	1	21*,22/03	35101	6	41/02	37045	11	45/02	37050	18	21,31,43/02
26300	7	21/03*	35103	5	41/02	37059	3	21,31,46,50/02;9,13,18/03	37061	15	36,38/02;5/03
26308	5	21*,22,23/03	35120	13	40,45,47/02;5,30/03	37063	21	21,28,36,50/02	37075	3	21,31/02;5,18/03
26309	26	11/03	35130	3	48,51/02;5/03	37079	5	22/02	37099	5	22/02
26312	2	21/03	35135	1	5/03						
26316	3	21/03	35136	2	48,51/02						
26320	5	24,27,28,29,35/02;7,12,22,23,25,31/03	35141	11	34/02						
			35143	7	34/02						
26323	4	1/03	35144	3	11/03						
26327	2	N41/02*;N17/03	35150	3	48/02						
27005	4	6,8,9,22,23/03	35155	3	25/03						
27040	5	9/03	35159	3	25/02						
27041	4	50/02	35163	7	25,44/02						
27060	2	22,23/03	35166	4	35/02						
27080	4	20/02;15,22/03	35167	3	35/02						
27081	6	49/02	35169	2	35/02						
27082	6	49,51/02	35200	7	48,51/02;5,25/03						
27083	39	28/03	35210	3	29/02						
27084	4	13/03	35230	3	29/02						
27100	2	31/02;8,21/03	35236	2	38,50/02						
27102	11	28/03	35246	2	38,43/02						
27120	4	41,43,44/02	35247	4	50/02						
27142	5	9/03	35255	3	50/02;14/03						
27160	2	8,13/03	35256	2	14/03						
27161	4	8,13/03	35270	2	38,46/02						
27163	21	49/02;8/03	35276	3	46/02						
27183	8	1,9/03	35277	3	38,46/02						
27186	8	1,9/03	35279	3	38/02						
28004	1	20,23,45/02;8,9,22/03	35295	3	27/02						

CHARTS AFFECTED BY NOTICE TO MARINERS  
 NM 20/02 THROUGH NM 33/03

Note: N indicates Not For Sale; P indicates Preliminary; T indicates Temporary;  
 \* indicates New Edition/New Chart; \*\* indicates Chart Canceled

Chart No.	Ed. No.	Notice to Mariners No.	Chart No.	Ed. No.	Notice to Mariners No.	Chart No.	Ed. No.	Notice to Mariners No.	Chart No.	Ed. No.	Notice to Mariners No.
37230	14	24,25,39/02;28/03	43104	4	46/02	44063	8	21/02;17/03	44319	2	21,41,42/02;4,6,9,10, P20,26,27,28/03
37231	18	20,21,25,28,30/02;6,10, 12,14/03	43106	6	44/02	44064	19	22,28/03	44320	4	23,29/02;6,8,9,15,P20, 25,26/03
37232	12	21/02;29,31/03	43127	5	20/03	44065	7	20,25,30,42/02;16,17/03	44321	6	22,23,29,32,40/02;6,8/03
37234	13	20/02;7,8,31/03	43140	4	41,48,52/02;12/03	44066	10	20,27,39/02;31/03	44340	11	20,21,37/02;4,6,8,9,15, 17,P20,26,33/03
37235	11	17/03	43141	5	52/02;12/03	44067	22	21,25,29/02;16,17,28/03	44341	7	25,37,41/02;7,9,P20, 26/03
37238	6	17,21,30,33/03	43142	4	52/02;12/03	44068	11	20,24,26,44/02;10,11, 13/03	44342	8	37,41/02;6/03
37241	17	26/02;26,27,30,32,33/03	43143	4	12/03	44069	16	20,21,24,29,31/02;11,13, 17,22,23/03	44352	2	4,6,7,8,12,15,17,19/03
37242	10	20/02;26,30,32/03	43144	4	6,12/03	44070	7	28/03	44360	9	20,21,34,37,41,42/02;4,9, 10,20,27,28,30,31,32/03
37243	7	27,30,32/03	43145	4	12/03	44071	4	29/03	44361	6	21,27/02;4,10,15,21,26, 27,28/03
37244	11	26/02;23,26,27,28,30,32, 33/03	43146	2	48/02	44072	4	21/02	44365	1	7,8,26,27/03
37246	14	21,24,27,30,32,33/03	43161	2	41,44/02	44073	2	21/02	44366	1	34,41/02
37248	18	39/02;21,23,24,26,27,30, 32/03	43163	3	44/02	44075	4	21,29,31,42/02;13,23/03	44367	2	20,22,25,26,29,35,37, 40/02;6/03
37258	4	1,11,22/03	43164	3	48/02;6/03	44076	3	25/02;22,28,30,32/03	44400	4	48/02;4,6,7,8,9,12,15,17, 19,23,24,25,27/03
37261	10	28/02;1,7,11,20,22/03	43180	5	9/03	44077	9	20,24,25,39/02;9,13/03	44401	7	10,12,19,24/03
37262	20	1,11/03	43182	4	47,52/02	44081	9	20,24,25,39/02;9,13/03	44410	4	4,6,11,12,13,14,15,23,24, 26,27/03
37264	3	30/02;1,15,22/03	43225	4	52/02	44082	11	21,24,25/02;9,33/03	44420	6	36,49/02;8,9,10,11,12,14, 17,22,25,27/03
37265	3	24/02;1,7,17,32/03	43240	4	50,51/02	44083	8	21/02;9,11,24,25,26/03	44430	2	28/02;6,10,11,14,19,24, 25/03
37281	15	30/02;1,15,22/03	43242	4	52/02	44084	1	6,11,26/03	44444	6	31/02;9,12,30/03
37320	16	26,27,28,38,44/02;9,10, 11,P12,15,17,21,24/03	43243	4	50,51/02	44085	2	21,25/02	44461	10	28/02;6,10,24,25,26,28, 31/03
37325	8	34,39,47/02;15,18/03	43248	3	9/03	44100	7	24,25,26,44/02;2,9,11,12, 13,22,31/03	44462	4	27/03
37326	2	34,47,51/02;15,18,21/03	43263	7	44/02	44105	2	49/02;5,6,8,24,26,27/03	44463	9	24/03
37328	2	42,44/02;11,15,21,24/03	43270	2	44/02	44120	7	21,26,27,28,29,31/02;2,9, 10,15,19,20,22,23,24,27, 33/03	44465	2	28/02;6,25/03
37330	2	22,24,26,30,32,34,38,40, 46/02;9,13,14/03	43280	5	44/02	44140	8	26,27,28,29,31,50/02;1,6, 19,21,23,24,26,31/03	44481	2	26,28,31/02;24,26,31/03
37342	3	32/02;2,11,15,21/03	43281	6	20/02*;27/03	44160	7	46/02;1,4,5,6,11,13,14, 15,20,26,31/03	51007	22	38/02;7,27,33/03
37343	10	45/02	43282	6	27/03	44161	2	29,50/02;1,2,6,10,21/03	51013	4	38/02;7,21,33/03
37344	11	32,34/02;21/03	43284	4	51/02	44162	1	50/02;1,24/03	51017	31	37/02;24/03
37360	15	27,28,30,32,34,43/02;2,9, 10,11,15,17,21,24,31/03	43285	5	44/02	44163	1	48/02	51022	11	37/02
37362	6	31,43,48,51/02;1,2,4,17, 22,32,33/03	43287	2	27/03	44164	1	46,48/02;1,11,18,22/03	51026	14	1,7,15,17,19,21,22/03
37363	8	48/02;4,17,32/03	43300	5	44,47,50/02	44165	1	46,48/02;1,5,6,11,20,22, 24/03	51062	28	15,17,19,22/03
37367	1	38,49/02	43301	4	45,50/02	44178	2	21/02;2,5,7,10,16,26, 27/03	51064	2	52/02;1,17/03
37380	2	34,40,42,43,44,48,51/02; 9,10,17,21/03	43302	4	44,47,50/02	44179	2	10,16/03	51081	10	5,6,13,15,17,21,22/03
37400	10	28,34,38,40,41,44,46/02; 6,10,20,31/03	43303	4	44,47,50/02	44180	6	20,24,29,34,45,46/02;1,2, 5,7,8,9,20,26/03	51082	7	5,7,13,15,17,21,22/03
37401	9	28,32,44/02;4,6,13,14,16, 22,31/03	43304	2	44,47,50/02	44181	5	5,10,13,20,21,27/03	51100	7	1,6,7,8,9,14,27,33/03
37402	7	28,32,41,42,44,50/02;4, 13,14/03	43321	6	30,41,47/02	44182	4	21,48,49/02;1,2,15,18, 27/03	51103	10	29*,33,45/02
37403	23	24/02;10/03	43323	4	30/02;27/03	44183	6	48/02;1,6,8,9,10,19,20, 25,27/03	51104	1	29*,33,45/02
37420	1	34,43/02;1,7/03	43324	4	30/02;27/03	44184	9	21,45,49/02;2,10,13,20, 22,32/03	51120	6	6/03
37421	8	14,21/03	43341	7	41/02;12/03	44185	7	45,49/02;1,2,10,27,32/03	51135	1	22/03
37423	5	14,21/03	43342	7	26/03	44186	2	21,45,46,48/02;1,2,5,8,9, 10,15,16,25,27,29/03	51142	2	6,13,15,22,33/03
37445	1	48/02;1/03	43345	4	1/03	44187	2	21/02;5,6,9,13,25,27/03	51143	4	6/03
37446	2	1/03	43360	21	28/02;6,10,13,17,20,21, 28,30,32/03	44192	1	21,29,46,48/02;1,18, 23/03	51145	2	42/02;13,22/03
37461	9	51/02;6,20,25/03	43363	5	45/02	44193	1	26/02;1,7,15,18/03	51146	3	42,52/02;5/03
37463	6	1/03	43364	5	45,46/02	44200	9	20,24,29,34,52/02;4,9,12, 13,22,27/03	51150	1	50,51/02;1,13,15,22, 33/03
37481	7	47,48/02;6,7,14,30/03	43371	13	22/02	44201	1	20,24,33,48/02;2,5,15, 25/03	51154	3	50,51/02;13,15/03
37501	3	46,47/02;7,8,20,33/03	43372	4	22/02	44204	1	48,52/02;2,4,5,7,12,13, 27/03	51155	1	50,51/02;1,15,22/03
37505	2	46/02;7,33/03	43373	8	45/02;17,20/03	44205	2	48,52/02;2,5,7,12,15,19, 22,26,27,29,31/03	51158	2	6/03
37506	4	45,46,47,51/02;8,20, 33/03	43374	1	22/02	44206	1	46/02;4,5,13,16,17,19,24, 28/03	51159	3	47/02
38030	1	20,21/02	43375	7	46/02;6,7,10,12,16,18, 23/03	44207	1	4,5,17,19,23,28/03	51160	20	48,50,51/02;1,4,5,6,7,14, 15,21,22/03
38528	4	N20/03	43384	1	48/02;4,5,6,7,10,11,12, 13,15,16,17,18,23,25,26, 27,32/03	44220	5	46/02;4,5,13,16,21/03	51163	4	4/03
38580	8	18/03	43385	1	27,45,48/02;5,11,13,20, 23,24,26/03	44221	1	19,21/03	51164	18	38,45,46,50/02;2,4,8/03
38585	4	18/03	44001	2	48,49/02;1,6,7,8,9,11,13, 14,P20,23,26/03	44222	1	6,13,21,24/03	51165	8	25,45,50/02;2,4,8,10,14, 16/03
38603	2	21/02	44015	8	28,31,48,49/02;6,7,8,9, 10,11,13,14,24,26/03	44224	1	49/02;5,20,21,24/03	51200	4	14/03
38610	1	20/02	44030	7	20,46/02;4,8,9,13,19/03	44240	8	49,50/02;4,7,13,14,15,16, 19,21,25/03	51202	8	33/02;18/03
41000	2	15/03	44036	5	28/02;13,16,17,20,23,28, 30,32/03	44243	2	25/02;5/03	51222	6	51/02;16/03
41060	3	34/02	44037	5	16,22/03	44260	7	29/02;2,5,6,13,21/03	51223	2	17,18/03
42003		N23/03**	44040	23	28,44/02;6,10,13,16,17, 20,22,23,24,28,30,32/03	44280	9	29,34,49,50/02;2,6,12,15, 19,22/03	51225	3	27/02
42004	1	N23/03*	44041	7	48/02;1,9,10,13,16,20,23, 28/03	44281	2	49/02;12,15,19,21,22, 27/03	51240	2	33/02
42160	3	7/03	44042	7	21,44,45,49/02;4,7,9,10, 11,17,19,20,25,27,28,29, 32/03	44282	1	49,50/02;13,17,19,21, 26/03	51260	4	37,50/02;16,18,28/03
42560	5	31/03	44043	8	44/02;1,6,9,10,11,13, 16/03	44283	2	50/02;8,21/03	51261	23	5,6,13,15,19/03
42600	5	14,30/03	44044	6	6,10,13,16/03	44284	2	41/02;6/03	51263	23	49/02;13,17/03
42620	5	14/03	44045	6	22/03	44285	1	2,15/03	51300	4	27/02
42740	5	34,41/02;6,25,31/03	44046	10	22,24/03	44286	1	2,27/03	51344	23	48/02;6,16/03
42742	3	6,8,30/03	44047	22	26,44/02;10,12,22,24,30, 31,32/03	44310	5	20,29,41,42/02;7/03	51342	3	1/03
42760	5	8,19,24,25/03	44048	11	5,12,18,22,25,27,31/03	44313	1	27,41,47/02	51344	2	5,7,16,18/03
42762	3	N25,N30/03	44049	9	44,46,50/02;8,14,22,24, 30,31/03				51380	5	47/02
43000	4	9/03	44050	21	20,31,32/03				51500	6	20/03
43015	12	9/03	44051	1	44,48,50/02;1,11,14,22, 25,26,27/03				51540	3	22/03
43030	24	25,28/02;2,9,10,11,12,13, 15,17,22,27,28,30,32/03	44057	5	21,25/02;29,30/03				51559	3	41/02
43058	3	20/03	44061	21	21/02;24,32/03						
43059	3	44/02;20/03	44062	8	28/03						
43060	4	44/02;27/03									
43079	2	41/02									
43082	5	41/02									
43101	3	46/02									

**CHARTS AFFECTED BY NOTICE TO MARINERS  
NM 20/02 THROUGH NM 33/03**

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Chart No.	Ed. No.	Notice to Mariners No.	Chart No.	Ed. No.	Notice to Mariners No.	Chart No.	Ed. No.	Notice to Mariners No.	Chart No.	Ed. No.	Notice to Mariners No.
51600	12	20/03	53101	7	33/02;8,13,16,24/03	54180	6	41,43,50/02;5,30/03	55046	4	21,22,23,26,27,30,31,37,38,39,41,48/02;18,19/03
51620	10	20/03	53104	2	20,35,42/02;20,24/03	54195	2	5/03	55047	8	22,23,26,27/02
51621	9	20/03	53105	20	37/02;8/03	54200	4	21/02;5,8/03	55048	12	23,27,32,36,37,39,41,48/02;20/03
51641	4	32/03	53106	6	20,24/02;21,33/03	54201	6	21/02;8/03	55049	6	22,27,30,41,43/02
52031	1	6,21/03	53107	16	35/02;6/03	54222	4	21,43/02;20/03	55060	7	20,36,37/02;28/03
52039	4	5*,7,8,9,13,14,18,21/03	53110	1	29,40/02;10,15,17/03	54223	2	21/02;8/03	55061	1	28/03
52040	17	43,50/02;13,16,18/03	53111	3	31,44/02*	54224	2	21/02;8/03	55062	5	28,33/03
52042	6	22/03*	53120	14	20,21,27,28,39,42/02;5,6,7,13,17,31/03	54225	2	21/02	55063	1	6/03
52043	21	46/02;6,7/03				54226	2	50/02	55064	3	23,37,48/02;6/03
52045	6	36/02	53122	3	20,29,40/02;7,8,16/03	54227	2	50/02	55082	9	5,25,32/03
52046	21	50/02;6,7,16,18,21/03	53123	3	7,29/03	54266	2	13/03	55084	7	39/02
52047	11	7,8/03	53125	2	46,51/02;13/03	54279	4	50/02*;2,15/03	55085	9	5,31,33/03
52048	3	8/03	53130	1	27,42,47/02;10,13,18/03	54280	10	20/02;5,15,22/03	55100	8	29,36,37/02;6,28,29,33/03
52051	1	43/02	53133	4	33/03*	54281	6	20/02	55101	4	7,25,32/03
52052	1	43/02	53135	2	20,51/02;7/03	54282	1	51/02	55102	3	24/02;4,5,15,25,32/03
52054	1	14/03	53141	5	20,24,34,51,52/02	54283	5	20,52/02	55103	2	24,29,48/02;1,4,5,7,15,19,20,25,26,27,31/03
52055	1	14/03	53147	3	36,39,42,51/02;6,7,10,13,17,20/03	54284	1	51/02;15/03	55104	2	48/02;4,5,7,14,19,31,33/03
52060	16	43,50,51/02;7,12,P20,26,29/03	53149	2	31/02	54287	7	5,15/03	55105	7	29,36,41,42/02;14,15,29,33/03
52061	2	45,48,51/02;7,12,20,P20,26,29/03	53160	14	20,51/02;3,6/03	54288	5	1/03	55110	2	23,24,29,37/02;6,29/03
52062	7	7,12,23,29/03	53161	8	51/02;3,8,13,18/03	54289	8	1/03	55120	2	36/02;6,14,28,33/03
52066	3	50/02;14,16/03	53162	7	50/02*;15/03	54300	12	31/02	55127	2	10,14,24,27,32/03
52080	14	50,51/02;4,7,10,11,12,14,20,P20,26/03	53164	9	20,37,51/02	54302	1	31/02;21/03	55128	2	26,33,36,38/02;1,4,5,8,14,26,27,28,32/03
52082	3	45,46,48/02;11,12,20,P20,26/03	53165	13	39/02;8/03	54318	3	1,14/03	55129	7	33,36,37/02;6,15,27/03
52083	2	45,46,51/02;1,16/03	53180	10	33,34,43,51/02;1,3,6,7,13,15,18,20,21,29/03	54321	2	25/03	55130	2	27,45/02;5,14,19,32,33/03
52084	2	45/02;4,10,11,12,14,18/03	53181	4	34/02;1,13,21/03	54322	7	20/02;1/03	55131	1	27,36,45/02;6,19,25/03
52085	3	50,51/02;4,11,16/03	53182	4	36/02;15,16/03	54327	4	20,31/02	55133	3	5,14/03
52086	2	45,50,51/02;1,4,9,11,14/03	53183	13	35/02;20/03	54329	4	5/03	55139	5	41/02
52087	1	51/02	53184	5	32,35/02;1,6,13,18,20/03	54332	3	25/03	55140	2	1,5,14,29,33/03
52088	2	45/02;4,10,11,12,14,18,P20,26/03	53200	6	33,36,43/02;5,6,7,15,16,20,30/03	54333	3	25/03	55150	2	24,28,29,37/02;15/03
52092	1	46,51/02;16/03	53201	6	51/02;18,21/03	54334	3	24/03	55160	2	24,28,29,42/02;29/03
52120	12	32,51/02;6,11,16,18/03	53202	6	15,17/03	54337	3	31/02	55161	1	29/02;17/03
52121	8	45,46/02;1,6,8,11,16,23/03	53203	11	5/03	54339	8	48,51/02;3,4,24/03	55170	2	29,31,36,41/02
52122	14	45/02;11,14/03	53204	10	44/02;5/03	54341	4	23/03	55175	1	24,28/02
52124	1	51/02	53205	3	5,26/03	54343	10	48/02;4,5,11,12,13/03	55180	2	33/02;1,15,29,33/03
52125	1	45,46/02;8,11,16,18/03	53206	6	5,25/03	54344	6	48/02;24/03	55190	2	6,20,27/03
52140	6	48,50/02;3,12,18,29/03	53220	6	36,43,51/02;5,16/03	54346	8	11,12,13/03	55200	2	27/02;8,10,20,25,26,27,28,32,33/03
52141	5	48/02	53223	5	29/02	54347	4	51/02	56031	1	1,2,17,21/03
52142	2	12,18,23,29/03	53226	3	3*,17,18/03	54350	4	51/02	56041	4	21/03
52143	8	18/03	53242	12	52/02;1,13/03	54351	7	52/02;26/03	56042	6	22/02
52144	5	50/02;3,7,8,10,14,16,18,21,23/03	53244	2	1/03	54352	3	52/02;1,3,33/03	56043	6	22/02
52161	14	6,11,14/03	53262	7	22,42/02;21/03	54360	12	20,52/02;20,21/03	56044	3	22,38/02
52164	2	14/03	53263	1	37/02;17/03	54362	3	52/02	56060	9	27/03*
52170	3	14,16/03	53264	5	17/03	54363	3	20/02;21/03	56063	1	21/02;16/03
52172	2	40/02;1/03	53265	6	35,41,46,52/02;15,16/03	54364	2	52/02	56064	6	38/02;2,16/03
52180	14	21,24,42,43,51/02;1,8,10,13,15,16/03	53266	4	1,8,13,17/03	54365	6	36/02;11,21/03	56065	3	33,38/02;16/03
52200	8	7,17/03	53268	4	22,42/02;7/03	54368	4	20/02	56067	3	48/02*;20/03
52220	7	27/03	53269	5	17/03	54369	4	52/02;20,21/03	56081	19	41/02
52221	7	27/03	53279	3	7,15/03	54372	2	20/02	56082	16	29/03
52223	4	27/03	53281	4	31,40,52/02;15,18/03	54380	6	26,42/02;3,16,18,28/03	56083	2	31/02
52240	9	27/03	53282	8	40/02	54382	9	26/02;16,28/03	56100	14	33/03*
53011	2	51/02	53283	4	33,52/02	54386	10	42/02;16,18/03	56101	6	33/02;1/03
53031	1	21,22,27,28,30,39,48/02;5,12,14,24,31/03	53284	4	33,40/02;7,21,24/03	54387	7	23,42/02;16,18,30/03	56102	23	1/03
53058	2	4/03	53285	4	35/02;7,15/03	54389	8	43,52/02	56103	6	30/02;1,33/03
53060	14	21,22,27,28,30,32,51/02;4,5,9,10,12,14,31/03	53287	6	20,27,35,42/02;1,5,7,8,10,15,22/03	54400	8	20,32,43/02;3,16,22,30/03	56104	3	22/03*
53061	10	28,30,44,47/02;12,16,17/03	53290	1	35/02	54402	4	52/02	56120	12	1/03
53062	13	1,14,16/03	53301	4	27/02;22/03	54403	4	22,43,52/02;24,30/03	56195	3	22/02*
53063	9	33/03*	53302	4	51/02	54407	4	32,43/02;3,7,16,30/03	57029	9	12/03
53064	6	33/02;10,20/03	53303	6	49,51/02	54409	2	23,32/02;7,8,12/03	57035	10	10,12,23/03
53065	2	33/02	53306	2	21,39/02;31/03	54413	3	31/02	57063	5	40,41/02
53066	2	33/02;20/03	53311	3	39/02	54416	5	33/03	57064	3	41/02
53081	8	21,30/02;4,5,11,16/03	54040	3	37/02;6,10,20/03	54417	1	30/03*	57101	18	41/02
53082	13	40/02	54041	7	35/02;4,8,16,17,24/03	54418	4	32,43/02;3,7,16,30/03	57103	2	16/03
53083	8	9,10,21,22/03	54043	2	29/02;17/03	54419	2	3/03	57120	13	43/02
53084	6	24,51/02;14,16/03	54060	5	37/02;16/03	54421	6	28,47/02	57140	10	43/02
53085	6	24,51/02;14,16/03	54061	11	52/02	54423	5	48/02*;17/03	57141	14	43/02
53086	8	20,46,48/02;17/03	54063	3	1,13/03	54430	1	26,28,37,43/02	57160	10	43/02
53087	9	48/02;17/03	54081	3	10/03	54440	4	30,41/02;17/03	57161	4	31/02
53088	7	33/02	54085	2	40/02;15,24/03	54441	6	30,42/02;2/03	57162	7	43/02
53089	4	21,22,23/03	54090	3	46/02*;11,15,19/03	54462	5	17/03	57164	2	43/02
53090	1	41/02	54095	3	46/02*;8,15,30/03	54464	5	17/03	57170	1	43/02
53093	2	20/02	54105	3	46/02*;8,13,17,19/03	54480	8	22,30,36,41/02;2,17,21/03	57200	6	11/03
53100	16	21,24,28,33,39,42,51/02;6,10,13,18,20,21,24,31/03	54115	3	46/02*;15,30/03	54481	8	22,30,36/02;33/03	57220	4	11/03
			54120	5	20,37,39,41/02;15,17,19/03	55001	4	29,36,37,42/02;14,15,28,29,33/03	57241	12	31/03
			54125	3	46/02*;15,17,30/03	55040	4	23,27,28,31,32,39,41/02;16,20,21/03	57260	3	23/03
			54140	7	41/02;15,30/03	55042	7	22,32/02;21/03	57261	2	23/03
			54151	1	3/03	55043	2	21,23,27,28,37,39,42/02	57262	4	23/03
			54161	12	10,20,21/03	55044	5	22,23,41,43/02;16/03			
			54165	2	33,37/02	55045	2	21,23,41/02			
			54166	3	10/03						
			54167	2	20/03						
			54168	1	37/02;10,17/03						
			54169	3	37/02;17/03						

CHARTS AFFECTED BY NOTICE TO MARINERS  
NM 20/02 THROUGH NM 33/03

Note: N indicates Not For Sale; P indicates Preliminary; T indicates Temporary;  
\* indicates New Edition/New Chart; \*\* indicates Chart Canceled

Chart No.	Ed. No.	Notice to Mariners No.	Chart No.	Ed. No.	Notice to Mariners No.	Chart No.	Ed. No.	Notice to Mariners No.	Chart No.	Ed. No.	Notice to Mariners No.
57381	12	52/02;15,16,23/03	62222	5	19/03*	62591	3	N28,N29,N36,N46,N48/02;N8,N12,N17,N18,N21,N23,N30/03	71210	18	44/02;3,23,27/03
57400	4	12/03	62225	3	37/02;17/03				71211	4	38/02
57408	2	12,24/03	62241	10	9/03				71212	1	38/02
57420	3	12/03	62242	11	47/02;9/03	63000	13	27,28,48/02	71230	11	23,38/02;6/03
57460	4	10,12,29/03	62250	4	34,38/02;32/03	63005	18	25,31/02;16/03	71241	10	6,12,16,20/03
57471	3	12,15/03	62270	4	37,41/02;29,32/03	63010	14	26,29,31,52/02	71243	5	15/03*
57472	2	12/03	62271	5	37,41/02;10/03	63015	11	31,38,40,52/02;9/03	71247	18	20,21/02;5,6,8,14,17,21,22/03
57480	8	12,15,23,27/03	62285	2	26/02	63020	15	27,31/02;4,9,11/03			
57482	12	24/03	62290	3	26,37,41/02;10,21,P23,26/03	63040	2	46/02	71248	2	N51/02*;N1/03
57483	11	24/03				63050	2	46/02	71249	2	35/02
57484	19	15,23,24,27/03	62292	2	24/02	63054	3	31/02	71251	11	20,35,40/02;1,15,21/03
57488	6	24/03	62295	3	21,P23,26/03	63055	2	29/02	71253	10	21,35,40,42/02;5,6,7,13,14,16,17,21/03
61000	20	10,15,23,27,31/03	62302	2	4/03	63060	7	25,28,32/02			
61018	4	24/02	62310	2	27/02;29/03	63062	7	28,29/02;7,16,18/03	71255	6	28/03*
61020	2	28/02;27/03	62313	4	27/02	63063	9	27,29/02;20/03	71257	2	21,23,28/02;5,6,7,12,13,16/03
61036	8	27/02;7/03	62330	2	38,40/02	63070	3	20,27,28,29/02;16/03			
61040	6	10,31/03	62340	3	38/02	63080	5	26,27,28,31,48/02	71258	2	20,21,28,35/02;5,6,7,13,22/03
61050	4	10,15,31/03	62343	3	8/03	63090	8	25,31/02;15,30/03			
61051	7	15,24/03	62350	3	10/03	63091	4	26,27,32,39,48,52/02;9/03	71259	3	15*,17,19/03
61060	5	12,27/03	62355	6	8,29/03				71261	8	35/02;2,16/03
61061	9	10,12,15,24/03	62360	5	38/02;12/03	63100	2	44/02;30/03	71262	7	6,33/03
61070	4	9/03	62361	2	N38/02;N12/03	63101	15	15,30/03	71265	3	46*,49/02;7,13,15,16,20/03
61071	9	18/03	62366	4	33/03*	63102	19	26/02;15,30/03			
61080	4	9/03	62391	5	33/03*	63103	17	26,29/02;15,16/03	71271	10	23,25,30,34,52/02;19/03
61090	5	12,27/03	62393	7	34,37,50/02	63110	4	40/02;16/03	71272	10	23,30,34/02;19/03
61091	5	12,18,24,27/03	62394	10	34,37,50/02	63111	9	25,48/02;9/03	71275	3	23,35/02;2,6,16,19,33/03
61092	13	18,27/03	62395	3	25/03*	63120	2	44,48,52/02;8/03	71281	7	51/02
61100	4	10,12/03	62400	17	23,24,33/02;4,9,31/03	63121	5	48/02;5,8/03	71285	3	23,25,30,34,52/02;13,19/03
61110	3	28/02;25/03	62401	9	6,10/03	63150	1	25,31/02			
61111	12	25,27/03	62402	10	10/03*	63200	5	52/02;30/03	71295	2	25,26,30,34,39,40,52/02;12,19/03
61120	4	28/02	62404	3	6/03	63201	9	40/02;30/03			
61130	3	28/02	62406	2	24,33/02;28/03	63205	2	30/03	71305	2	31,34,36/02;2,13,23/03
61140	5	27/02	62408	7	10/03	63210	3	45,52/02;16,30/03	71311	4	7/03
61141	6	38/02	62409	6	7/03	63220	5	26,45,52/02	71313	8	45/02
61142	6	38/02;7/03	62411	1	52/02	63230	6	45/02	71314	5	6,10/03
61170	5	27/02	62413	12	28/03*	63231	8	31,45/02	71315	2	27,31,34/02
61180	4	20,27/02	62417	1	52/02	63232	3	45/02	71320	1	35/02;5,14,33/03
61190	4	39,41/02	62419	6	33/02;8/03	63233	15	31/02	71325	8	5/03
61200	7	21/02	62420	5	33,37,39/02;8/03	63240	4	19/03	71330	13	35/02;5,33/03
61204	5	13/03	62429	9	27,39,43/02	63250	6	29,40/02;11/03	71331	11	5,7,8,33/03
61300	2	7/03	62431	8	26*,27,37/02	63252	1	33/03	71333	2	6,7,33/03
61310	2	33/02;7/03	62432	16	13*,30/03	63271	8	52/02;8/03	71335	2	8/03
61311	5	33/02	62433	12	30,31,34,45/02;1/03	63290	7	31,32,38/02;10,22/03	71340	11	22,40,46/02;2,4,5,6,7,33/03
61312	3	33/02	62434	9	40,46,52/02;8,12,17,18,21,23/03	63291	9	33/02;16/03	71343	3	7/03
61331	4	7/03				63310	5	11/03	71348	3	35/02;7,23/03
61400	2	27/02;7/03	62437	10	30*,32/03	63320	8	30/02	71349	2	23/03
61410	2	7/03	62439	4	1/03	63321	6	30,42/02;9/03	71350	8	20/02;5,6,7,14/03
61430	2	7/03	62440	8	16/03*	63322	2	30/02;9/03	71400	5	14,23/03
61433	1	7/03	62441	10	36/02	63330	9	27,39/02;4/03	71401	1	40,46,51/02;5/03
61434	2	7/03	62442	6	24/03	63337	15	27,31,39/02;4/03	71402	1	40,46/02;4,5,6,33/03
61450	2	27/02	62448	2	23/02	63370	1	20/03	71410	1	39/02;12,23/03
61472	1	20/02	62451	7	21,23/02	63400	1	39/02;8,11/03	71420	1	38,39/02;3,12,14,23/03
61540	2	20/02	62453	4	16/03*	63410	6	39/02;8,9/03	71430	3	11*,20,23/03
61560	2	7/03	62455	7	27,39,43/02	63413	5	39/02	71440	2	11*,23/03
61562	2	6/03	62456	1	27/02	63417	2	39/02	71445	1	7/03
61581	5	28/03	62457	6	11/03*	63420	2	39,45/02;8/03	71450	1	22,25/02;7/03
61582	4	28/03	62459	2	6/03	63424	2	45/02	71455	2	11*,23/03
61591	4	28/03	62460	4	24,31,33/02;10/03	71005	1	34/02;2,6,12,13,16,23/03	71460	1	20,25,41/02;23/03
61610	7	28,29/02	62464	2	31,49,50/02;4/03	71006	5	39/02;23/03	71465	1	20/02
61611	11	28/02	62480	2	16*,18,32/03	71009	3	39,46,48/02;1,6,7/03	71470	2	38/02;14/03
61612	4	28/02	62490	2	16*,17,18,21,32/03	71012	3	33,39,46/02;1/03	72000	8	31,32,35,47,50/02;2,20,21,23,24,27/03
61650	3	12/03	62498	4	23,25,27,31/02;4,9,31/03	71015	4	23/03			
62000	20	46/02	62499	4	25,27,31,49,50/02;4,9,31/03	71018	10	33,35,37/02;7,12,13,15,21,25,26,27/03	72007	10	30,36,38,47,51/02;2,5,7,11,27/03
62001	5	11*,28/03									
62024	13	38,40/02;29/03	62510	3	11*,12/03	71027	9	20,22,24,25,34,38,45,49/02;2,4,5,14,18,23,33/03	72014	10	46/02;7,19/03
62028	15	10/03	62512	3	N11*,N12/03				72021	8	31,36,38,47,50,51/02;7,20,23,27/03
62032	16	11*,17,21/03	62515	2	26,45/02	71033	31	23,37,38,49/02;3,12,14,15,23/03	72028	7	31,34/02;22/03
62033	3	N11*,N17,N21/03	62520	6	20*,28,32/03				72035	8	31/02;8,21,27/03
62046	3	19/03*	62521	4	N20*,N28,N32/03	71036	8	35,44/02;12,14,23,26/03	72045	2	8,27/03
62050	6	44/02	62530	6	20*,28,32/03	71040	5	27,34,42/02;7/03	72050	4	23/03
62092	7	41/02	62531	4	N20*,N28,N32/03	71042	1	34/02	72060	8	32,50/02
62093	7	41,49/02	62540	6	21,23,25,26,29,31,32,34,40,45,48,50,52/02;8,12,17,18,21,30/03	71043	2	25/02*	72070	4	32/02;2,9/03
62095	3	11*,32/03				71044	1	27/02	72075	2	20/02;9/03
62098	7	33/03*	62541	3	N21,N23,N25,N26,N29,N31,N32,N34,N40,N45,N48,N50,N52/02;N8,N12,N17,N18,N21,N30/03	71058	2	23,36/02	72080	7	20,51/02;2,9/03
62100	6	P23,26/03				71059	1	23,36/02	72085	3	15/03*
62110	9	P23,26/03				71061	15	23,36/02	72094	2	29,38/02;7/03
62140	1	34,40/02				71066	1	39/02;6,7,10,24/03	72100	7	29/02;7,19/03
62142	10	24,28/02;32/03				71081	3	21/03	72103	2	29/02;4,6,7,19/03
62143	3	24,28/02;32/03				71091	4	1,2/03	72105	2	36,38/02;7,11,19/03
62144	3	24/02	62550	3	16*,28,32/03	71140	6	33,39,46/02;1/03	72107	2	27,29/02;7,19/03
62170	2	38/02	62560	4	16*,18/03	71180	29	33,37/02;7,12,13,15,21,23/03	72109	3	42,44/02
62171	4	38,47/02	62570	4	21,23,25,26,31,32,33,34,36,40,45,48/02;8,12,17,18,30/03				72130	4	46/02
62191	15	11*,15,28/03				62580	3	23,26,32,33,45/02;12/03	72131	3	11/03
62193	17	31/02	62590	2	28,29,36,40,46,48/02;8,12,17,18,21,23,30/03	62590	2	28,29,36,40,46,48/02;8,12,17,18,21,23,30/03	72161	10	10/03
62194	8	31,36/02;4/03							72181	2	36/02;7,11/03
62195	7	19/03*									
62220	9	21/03*									

**CHARTS AFFECTED BY NOTICE TO MARINERS  
NM 20/02 THROUGH NM 33/03**

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Chart No.	Ed. No.	Notice to Mariners No.	Chart No.	Ed. No.	Notice to Mariners No.	Chart No.	Ed. No.	Notice to Mariners No.	Chart No.	Ed. No.	Notice to Mariners No.
72190	2	30/02;10/03	74205	2	24,25/02;27,32/03	74584	5	22,25,32,34,41,43,45/02;	76160	4	28/03
72201		8/03	74206	2	24,34/02;27,32/03			26,27/03	76161	10	40/02
72211	6	43/02;5,8/03	74210	7	25/02;7,17/03	74590	2	28,51/02	76162	1	18,28/03
72223	8	27/03	74220	8	23,25,26,35,47,51/02;	74591	7	40/02;8/03	76170	7	29/02;28/03
72231	8	31/02;21/03			30/03	74595	2	28/02	76180	1	22,23/02;28/03
72234	2	18,19/03	74221	2	35,51/02;30/03	75000	6	47/02;6,31/03	81048	8	28/03
72236	1	9,12/03	74229	2	22,23,33,37,43,47/02;18,	75001	3	23,47/02;5,6,31,32/03	81054	13	14*,27,28/03
73000	9	26,40,52/02;10,20,21/03			26/03	75010	7	41,42,50/02	81067	5	51/02;10,12,16,25/03
73002	4	24,30/02;5,11/03	74230	7	28,39,42/02;5,7/03	75025	9	22,23,36,39/02;2,4,8,25,	81076	9	51/02;10,12,16,27/03
73004	4	26/02;10/03	74231	7	23,35/02;3,21/03			27/03	81092	3	38*,50/02;32/03
73006	2	26/02	74232	9	5,7,21/03	75035	18	21,24,36,39/02;2,6,26,	81711	6	23/02;31/03
73008	8	11,13,23/03	74234	1	8,17/03			27/03	81715	4	23/02;31/03
73012	6	11/03*	74240	8	34,39,42/02;4,5,7,8,9/03	75051	6	5/03	82005	5	17/03
73014	10	48,52/02	74251	8	23,25,26,31,32,34,37,42,	75110	2	50/02	82010	6	17/03
73016	4	44/02			44,46,51/02;6,9,17,21/03	75120	2	42/02	82015	13	22/02
73020	9	25/02;9,21,22/03	74252	9	47/02;5,7,9/03	75130	16	21,27,31,34,41,50,51/02;	82020	7	22/02
73024	3	39/02	74253	6	23,25,27,32,47/02;8,9,16,			5,7,8,16,19,25,26/03	82200	2	17/03
73030	4	20/02;22/03			20,21,30/03	75131	7	20,28/02;17/03	82210	2	42,48/02
73032	4	25/02;9,22/03	74261	9	25,41,49/02;4,10,30/03	75132	11	31/02;17,19,25,29,32/03	82242	1	35,48,50/02
73041	2	5/03	74265	2	25,31,38,41,43,47,49/02;	75134	3	23,27,33,51/02;5,19,	82244	5	35,42,48/02;20/03
73191	3	7/03			7,9,16,21,30/03			29/03	82253	7	35,48,50/02;20/03
73271	7	21/02;13/03	74270	3	26,31,38/02;7/03	75142	5	21,28,36,42,50/02	82374	9	22/02
73552	4	25,34,45/02;1,7,9,10/03	74271	9	28,38,46/02;19,26,27,29,	75143	4	20,28,32,33,36,38,42,	82377	2	22/02
73570	7	34,45/02;1,10/03			30/03			50/02	82646	2	33/02
73580	4	52/02	74272	7	26,32/02;4,19,29,30/03	75144	3	20,31,33,36,42,51/02;4,	82649	5	20,33/02
73581	4	52/02;3/03	74273	5	31,38,41,43/02;7,19,			10,18,25,30/03	82683	4	33/02;17/03
73590	6	31,47,52/02			27/03	75150	5	50/02;16,19,26/03	82684	3	33,38/02;7/03
73601	3	24,26,31,34,35,47/02	74281	7	3,30/03	75160	6	22,23,24/02;17,18,19,25,	82689	3	38/02;17/03
73610	4	26,31/02	74283	2	46,49/02;27/03			32/03	82690	10	20/02
73631	4	36,46/02;1,17/03	74285	2	31,34,35,45/02;1,9,16/03	75170	12	38,39/02;8,25/03	82694	6	38/02;17/03
73640	5	23,36/02;16/03	74286	2	22,24/02;29/03	75171	22	22,27,31,32,33,36,38,40,	82697	6	38,46/02
74000	6	24,36,47/02;2,7,18/03	74287	2	27,34,38,52/02;9/03			42,48,52/02;1,6,16,26/03	83010	6	6/03
74002	2	25,27,28,35,47/02;31/03	74289	5	26/02;9/03	75172	5	39/02	83020	8	24/03
74003	5	22,25,28,47/02;7,10,	74290	11	25,34,39,45,46,48,49,	75173	9	20,25,31,32,33,36/02;1,6,	83021	1	25,27,43/02
		31/03			51/02;1,7,9,10,16,27,			20,26/03	83023	4	25,27,43/02
74004	2	35,37,39,47/02;9,30/03	74292	8	27,34,38/02;9,27/03	75175	9	31,33,38,40,45,50/02;6,	83025	1	12/03
74005	2	31,34,35,46,47,51/02;4,7,	74293	7	25,34,45,48/02;9,16/03	75176	9	27,42,50/02;25,26,32/03	83026	32	41/02;6/03
		9,16,27,30/03	74294	3	25,34,45/02	75177	7	27,38,48,50,52/02;6,	83039	11	41/02;6/03
74006	2	26,31/02	74295	3	22/02;4,9,27,29/03			26/03	83251	2	2,12/03
74007	1	36/02	74296	4	27,34,38,49/02;9,27/03	75180	2	8,25/03	83252	8	2,12/03
74008	6	51/02	74320	3	35/02;8,18/03	75185	2	22,47/02;8/03	83253	2	12/03
74009	10	20,22,25,38,49/02;8,9,	74340	3	27/02;16/03	75190	2	23,47/02;25/03	83382	9	20,25,27/02
		21/03	74350	4	25/02;16/03	75192	6	22,25,37,38,43,47/02;8,	83383	2	20,25,27/02
74012	10	20,22,26,37,40,49/02;6,8,	74376	5	43/02;9,16/03			19,30/03	83385	19	20,27/02
		19,20,27/03	74380	4	22,32/02;8,9,26/03	75193	6	22,49/02;1,5,7,10,16,	83392	5	31/02
74015	10	20,40/02;21,31/03	74391	3	26/03			19/03	83393	2	N31/02
74016	3	27/03	74392	7	22,25,39/02;25/03	75207	2	36,52/02;4,16,33/03	83397	6	1/03
74017	4	37,45/02;18,31/03	74393	9	25,28,31,38,41,50/02;	75208	2	26,50/02;30,33/03	83425	6	20,35/02
74018	6	44/02			3/03	75212	2	36,52/02;33/03	83484	10	23/03
74020	4	33,37,38,43/02;5,18,	74394	2	28,31,41,49,50/02;3/03	75215	2	36,39,40,52/02;7,33/03	83570	2	24/02
		31/03	74410	3	20,25,38/02;7/03	75220	12	36,39,49/02;4,20,26/03	83572	1	24/02
74021	7	20,33,35,39,44/02;7,10,	74415	1	39/02	75222	8	22,35,40/02	83574	2	7/03
		26,31/03	74420	3	45/02;19,27,30/03	75240	4	36,39/02;2,4,27/03	83580	2	24/02;8/03
74024	7	31,44/02	74430	2	49/02	75241	5	34,36/02;26/03	91005	6	45/02;19/03
74027	9	43,44/02	74440	3	32,39/02;2/03	75251	5	23,33,48/02;3,19/03	91008	1	29,44,48/02;8,10,12/03
74030	6	28,51/02	74450	3	21,22,26,49/02;2/03	75251	6	21,23,24,33,36,48/02;3,6,	91010	6	29,48/02;10,12/03
74053	2	28,51/02	74455	3	21,23,48/02;1,4/03	75261	6	26,31/03	91020	5	21,22/02;19/03
74054	2	28/02	74460	4	21,22,26,37,40,46,49/02;				91025	8	21,22/02
74151	9	20,24,27,36,44/02;2,20,			6,20/03	75262	6	38/02;16/03	91030	3	21/02
		29/03	74465	2	9/03	75263	9	32/02;5,26,31/03	91080	4	21/02
74152	11	36,44/02;27,30/03	74470	2	8/03	75264	17	33,34,37,41,42,44,45/02;	91096	1	21/02
74153	2	36,44/02;2,27/03	74475	2	44/02			2,27,32/03	91170	2	38,41,44/02
74162	4	36,46,47/02;8/03	74480	2	44/02	75265	2	20,21,24/02;6,20,31,	91280	7	22/02;19/03
74171	4	33,36,47/02;3,10,18,	74485	3	43/02			32/03	91286	10	20/02
		20/03	74493	3	38,43,45/02	76015	1	23,24,29,35,40/02;28/03	91289	19	20/02
74172	5	36,47/02;7,10,18/03	74494	2	41/02;8,9,16/03	76030	9	24,49/02	91294	8	19/03
74181	8	23,28,33,35,37,38,39,	74510	2	33,35,37/02;5,10,17,	76050	8	24,49/02;18,28/03	91297	9	19/03
		47/02;10/03			18/03	76052	8	21/02;4,5,28/03	91300	3	21,22/02
74182	12	23,24,25,26,28,33,35,37,	74515	4	20,28,33,35,39/02;4,7,10,	76054	5	49/02	91331	3	21/02
		38,39,41,42,44,51/02;6,			31/03	76056	3	9/03	91340	3	21/02
		10,17,25/03	74517	3	20,21,39,41/02;4,31/03	76060	7	40/02	92006	5	45,46/02;5/03
74183	11	38,39,42/02;4,6,17,25/03	74521	3	28,41/02	76061	3	40/02;9/03	92025	3	21/02
74184	10	23,24,28,33,35,37,38,46,	74527	2	28/02	76070	9	23,35/02;28/03	92030	4	21/02
		48/02;17/03	74530	2	28,44/02	76071	9	23,35/02;28/03	92033	5	45/02
74186	7	34/02;4,10,17,21,27,	74535	2	31,42,44,48/02	76080	8	1,18/03	92060	3	21/02
		30/03	74545	3	28,40/02;18,32/03	76081	7	28/03	92061	3	21/02
74190	7	22,23,26,35,36,37,46/02;	74550	4	5,32/03	76083	3	1/03	92216	3	23/02*
		1,16,31/03	74555	3	34,43,44,48,51/02;5/03	76110	5	23/02	92290	2	19/03
74191	2	22,24,26,35,46,48/02;1,7,	74560	10	23,28,32,40,43,46,48,	76120	6	22,23,25/02	92296	3	19/03
		9,29/03			50/02;4,5,18,31,32/03	76140	7	46/02	92450	3	21/02
74192	3	24,26,28,35,46/02;1/03	74561	2	5/03	76141	8	46/02;28/03	92470	3	21/02
74200	8	21,27,28,37,46/02;1,8,	74581	9	20,26,32,34,36,40,41,43,	76142	1	46/02	92560	4	45/02
		32/03			45/02;27,31/03	76144	1	28/03	93006	2	21,39,45/02;4,8,10/03
74201	9	27/02;32/03	74582	9	26,28,40/02;17,20,27,	76146	1	28/03	93010	6	22,27,38,40,41/02;2,13,
74202	3	21,24/02;1,7,27/03			31/03	76147	1	28/03			14,18,24/03
74204	5	21,24,27,37/02;1,7,8,	74583	15	26,32,34,40,43,44,48/02	76150	6	35/02	93018	8	27/02;1,14,18,24/03
		32/03				76151	7	22/02	93020	2	24,38/02;4,13/03

CHARTS AFFECTED BY NOTICE TO MARINERS  
NM 20/02 THROUGH NM 33/03

Note: N indicates Not For Sale; P indicates Preliminary; T indicates Temporary;  
\* indicates New Edition/New Chart; \*\* indicates Chart Canceled

Chart No.	Ed. No.	Notice to Mariners No.	Chart No.	Ed. No.	Notice to Mariners No.	Chart No.	Ed. No.	Notice to Mariners No.	Chart No.	Ed. No.	Notice to Mariners No.
93025	5	45/02	94164	2	26,27,46,50,51/02;12,16,19/03	95141	8	45,47,50,52/02;1,6,7,8,17,19,21,23,25,29/03	96441	1	41/02;10/03
93030	6	45/02	94165	4	20,26,50/02;18,24/03	95142	9	50,52/02;8,10,19,23,29/03	96480	3	41/02
93032	3	45/02;24/03	94180	9	26,32,42,44,47,50,51/02;23,28/03	95143	11	40,45,47,48,49,50/02;1,5,6,7,8,9,10,11,12,13,16,17,19,23,24,25,27,28,30/03	96500	6	41/02;10/03
93043	1	45/02	94184	2	N51/02	95144	9	38,41,46,48,50,52/02;1,6,8,9,10,11,13,16,21,23,24/03	96520	7	10/03
93046	1	45/02;5/03	94187	3	32/02;14,23/03	95146	14	36,38,39,40,41,44,46,47,48,50,52/02;1,8,9,16,21,23,24,31,32/03	96521	3	21/03
93047	2	45,49/02;24/03	94188	2	44,46,47,51/02;8,28/03	95149	9	22,34,36,37,38,41,43,48,49,52/02;8,9,19,24,25,27,30/03	96540	5	10/03
93048	1	35,49/02;5,14,33/03	94201	1	51/02;24,28/03	95151	17	34,36,37,38,40,47,50/02;1,5,19,23,28,29,30/03	96550	5	10/03
93049	1	45/02;4/03	94203	10	22,26,41,42,44,46,47,52/02;10,11,19/03	95152	5	37,38/02;6,9,19,28,30,31,32/03	96560	5	10/03
93061	4	45/02	94206	3	22,26,41,42,44,47,52/02;11,19/03	95153	2	22,34,36,37,38,43/02;19,25,32/03	96580	3	10/03
93101	2	N24,N34,N38/02;N2/03	94207	5	N26,N42,N44,N47,N52/02;N11,N19/03	95160	13	27,41,42,47,52/02;1,6,8,9,11,17,19,21,24,25,27,33/03	96621	5	10/03
93110	2	22,24,38,40,41/02;1,2/03	94208	6	N44/02	95161	16	27,31,40,45,48,50/02;1,5,6,8,9,10,17,19,23,25,27,30/03	96645	1	26/02
93115	2	40,41/02	94216	6	27,45/02;10,17/03	95163	2	27/02;1,6,9,10,13,14,17,21/03	96760	4	29,35,45/02
93117	2	40,41/02	94217	4	30/02;6/03	95164	4	43,48/02;1,6,9,27/03	96763	3	29,02;17/03
93160	4	27,34/02;1,14,24/03	94218	3	30,36/02;6,18/03	95167	10	44/02;1,6,9,11,14,17,21/03	96764	2	7/03
93180	7	27,34/02	94219	1	47/02	95169	2	44,50,52/02;11,16,23/03	96800	4	41/02
93200	4	26,27/02	94220	4	22,26,41,42,47,49/02;8,10,11,17,18,33/03	95171	1	1,6,9,21/03	96901	3	27/02;7/03
93220	6	27,34/02	94260	5	49/02;1,6,11,31/03	95172	1	1,9,21,32/03	96902	2	45/02
93240	11	34/02;16,24/03	94280	5	51/02;15,32/03	95173	1	50,52/02;1,28/03	96904	2	27,41/02;12/03
93241	9	8,16,25/03	94281	6	6/03	95174	1	50,52/02;12,27/03	96906	2	27/02
93243	6	42/02	94282	9	46/02;8/03	95176	2	20,31/02;8,11,30/03	96910	1	10/03
93244	7	16/03	94283	7	46/02;2,8,12,32/03	95177	1	41,50/02;9/03	96937	2	40/02
93245	6	16,24/03	94290	2	1,7,31/03	95180	11	27,40,42,44,49/02;1,6,9,10,21,23/03	96938	4	4/03
93247	4	26/02	94322	14	8/03	95185	2	20,31,40,44,49/02;10/03	96939	3	4,7,9,22/03
93260	8	27,31/02;7,18/03	94360	6	32,43/02;6,13/03	95200	6	23/03	96941	8	47/02
93261	5	31/02;7/03	94361	13	32/02;13,15/03	95206	4	44/02;1,6,16,20,22/03	96943	15	44/02;1,9,10,12,20,22,23,33/03
93280	4	18/03	94362	4	32,43/02;16,18,29/03	95207	4	44/02;1,7,13/03	96944	6	45,52/02;6,13,20/03
93360	5	38/02	94380	4	N5,N6,N18/03	95208	2	48/02;23,28/03	96945	3	43,52/02;20,22,23/03
93520	13	45/02;15/03	94384	3	5/03	95212	3	21/02*	96947	15	6,12,13/03
93610	3	44,45/02;6/03	94420	3	39/02;4,8,11,13,14,23/03	95217	7	48/02;1,5,9,16,23,28/03	96948	8	21,22/03
93650	2	44/02;6,24,28/03	94421	10	45/02;4/03	95218	13	41,46/02;1,6,9,27/03	96949	21	45/02;22/03
93652	2	3,6,24/03	94423	12	45/02;11/03	95226	8	48/02;25/03	96960	3	7/03
93680	3	45,47/02;24/03	94427	2	N32/02	95227	5	13,20,23,26/03	96962	4	30,35/02;1,9,22,33/03
93690	2	44/02;6/03	94440	2	46/02;18/03	95252	4	44/02;1,7,13/03	97000	3	17/03
93698	3	45/02;28/03	95016	8	40/02	95258	7	6,16,18/03	97026	10	23/02
93710	3	26/02;6,15/03	95040	8	40/02;11/03	95261	7	48/02;1,5,9,16,23,28/03	97040	5	43,47/02
93720	10	39,45,50/02;8,15,17,20,24,28/03	95041	7	23/03	95262	13	41,46/02;1,6,9,27/03	97041	9	45,47/02;10,12,22/03
93721	5	20,22,26,32,39,42,45,50/02;4,11,17,20,23,25/03	95060	13	40,43,44,47,48,52/02;1,6,11,14,17,19,21,23,29,31,33/03	95266	8	48/02;25/03	97042	7	14,20/03
93725	6	20,45/02;24/03	95065	5	48/02;10,31/03	95267	5	13,20,23,26/03	97043	2	23/02;14,20/03
93726	4	26,48/02;8,12,17/03	95066	11	20,41,43,44,47,48,49,50/02;1,5,6,17,19,21,23,25,27,31,32,33/03	95270	16	39,48/02;6,9,13/03	97062	8	46/02;12,14,22,26/03
93730	3	21,39,40,42,45,47,50/02;2,4,17,24,28,31/03	95067	13	41,44,46/02;1,5,10,17,23,28/03	95274	3	48/02;9,10,13,20,21,22,23,26/03	97063	3	52/02
93733	13	21,22,26,32,39,45/02;4,19,20,25/03	95068	1	41,42,45,47/02;12,14,17,25,28,29/03	95274	3	48/02;23,28/03	97064	12	27,44/02;6,10,22,26/03
93734	11	22,26,32,45/02;4,19,20,25/03	95080	13	25,27,30,33,40,44,45,50,52/02;1,6,7,9,10,14,17,19,21,24,25,27,28,30,31,32/03	95276	3	21/02*	97064	2	6,14,33/03
93736	22	22,26,32,41/02;4,20,25/03	95082	9	21,25,27,30,33,44,46/02;1,4,7,11,17,25,27,28,30/03	95280	9	48/02;8,20,26/03	97080	5	16,22,26/03
93778	8	47/02;7/03	95083	8	21,25,33/02;1,4,19,28/03	95281	15	7,10,14/03	97082	5	24,46/02;16/03
94004	6	29,30,33,37,44,52/02;8,9,10,12,17,18/03	95084	7	50,52/02;8,12,17/03	95282	7	46,52/02;4,6,9,19,20,22,23/03	97083	3	24/02;29/03
94016	2	23,33,35,52/02;3,9,10,14,17,21,33/03	95085	4	45,52/02;1,6,11,12,27,33/03	95285	3	18,20/03	97100	4	20,28,42,47/02;16,17,26/03
94028	7	23,25,40,42,52/02;1,6,7,8,9,11,14,17,21,24,27,31,33/03	95086	5	45,52/02;1,6,8,11,12,23,27,31,33/03	95285	5	45,48,52/02	97101	1	28/02;21,25,26/03
94033	5	19,21,23,29/03	95087	3	21,25,33,40,48/02;1,8,30,31/03	95300	3	18,20/03	97104	4	20/02;7/03
94040	13	30,37,47,51/02;6,8,10,17,18,28,31/03	95100	12	38,39,43,44,45,46,47,50,52/02;1,4,6,7,8,9,10,17,23,25,27,28,29,31/03	95302	15	35,38/02;20,21,26,33/03	97105	3	20/02
94042	9	47,51/02;7,18,24/03	95101	8	39,44,50/02;1,5,6,9,14,17,28,31/03	95341	8	42,47/02;1,10/03	97108	3	21,25,26/03
94060	10	27,29,30,33,37,46,47/02;7,8,10,12,14,15,18,24,31/03	95102	8	38,42,45,46,47,48,50,52/02;1,4,5,8,13,14,17,23,25,27/03	95342	16	30/02;9,13,16,20/03	97120	6	22,28,31,37,40,42,43/02;9,14,16,17,25/03
94061	5	33,35,47/02;23/03	95103	8	42,43,45,47,52/02;4,6,7,10,12,19,27,28,31/03	96004	14	44,45/02	97140	17	22,33,37,39,43,45/02;7,9,14,16,25/03
94063	4	29,33,41/02;8,18/03	95120	7	20,21,42,43,52/02;1,4,14,21,26/03	96020	4	41/02	97141	5	21,40,46/02;8,13,20/03
94067	10	33/02;10,11/03	95138	8	45,46,48,49,50,52/02;8,16,17,19,23,24,25,27,28,30/03	96032	3	38/02	97143	11	21,31,43,45/02;9,13,20,25,26/03
94080	7	27,29,30,33,44,48/02;10,19,22,32/03	95140	15	22,38,40,41,44,48,49,52/02;1,7,8,9,10,17,21,24,25,27,29,33/03	96039	7	30/02;23/03	97144	9	21*,23,45/02;9,27/03
94082	8	25,27,30,44/02;8,19,22/03				96041	11	30/02	97149	20	25,34,35,44,45/02;1,16,25/03
94083	12	25,44/02				96042	11	10,21/03	97150	13	34,39,43,44/02;20,27/03
94084	1	23,25/02				96044	10	29,30/02;23/03	97151	16	31,35,44,45/02;12,13,14,16,20,25/03
94120	6	21,33,38,48,52/02;9,10,17,18,21/03				96140	6	30/02;21/03	97152	8	37/02;20/03
94122	7	30,40/02				96140	5	30/02	97153	7	31/02;16,20/03
94123	9	21,33,38,42,44,52/02;9,10,15,17,18,28/03				96379	1	10/03	97154	2	36/02
94124	13	38,42,44/02;10,15,17,25,28/03				96381	2	10/03	97155	14	20,31,35,36,37,39,40,48/02;12,13,18,20,28/03
94127	2	21,33,38/02;6,9,13,16,18/03				96382	2	10,12,21/03	97156	6	21,37/02;1,14/03
94160	7	26,27,33,38,44,46,47,50,51,52/02;9,10,12,16,17,18,19,28,31/03				96400	4	12/03	97157	1	35,37/02

## SECTION I

NM 33/03

CHARTS AFFECTED BY NOTICE TO MARINERS  
NM 20/02 THROUGH NM 33/03

Note: N indicates Not For Sale; P indicates Preliminary; T indicates Temporary;  
\* indicates New Edition/New Chart; \*\* indicates Chart Canceled

Chart No.	Ed. No.	Notice to Mariners No.	Chart No.	Ed. No.	Notice to Mariners No.
97182	13	21,23,31,34,39,46,48/02; 1,4,5,6,7,8,12,14,17,18, 20,21,22,23,27/03	97285	6	23,27,31,34,42/02;7,13, 17/03
97183	9	25,44/02;5,9,14,16,18,22, 26/03	97286	6	21,23,25,27,31,34,35,36, 41,42/02;6,8,10,13,17/03
97184	15	25,28,47/02;1,7,12,14,18, 22/03	97287	5	34/02;20/03
97185	2	43/02;1,7/03	97300	6	1,13,25,26/03
97187	3	44,48/02;9,18/03	97303	3	25,47,48/02
97188	2	1,7,13,17,20,22,27/03	97320	6	33/02;14,25/03
97189	2	25,28,44/02;9,14,18, 22/03	97340	8	27,33,38,52/02;16,17,18, 22/03
97190	2	22,34,39,52/02;8,13/03	97341	9	27,34/02;16,21/03
97200	9	52/02;8,16,17,22,25,26, 29/03	97342	14	27,38/02;17,18,22,27/03
97201	7	18,28/03	97343	12	27,38/02;17,25/03
97202	15	43,44,52/02;20,25/03	97360	6	20,23,27,38/02;5,7,13,18, 27/03
97204	9	28,29,45,52/02;4,6,10,19, 20,25,33/03	97380	7	21,39,47,52/02;1,2,8,16, 23/03
97205	3	18,28/03	97381	7	27/02;7,13,27/03
97206	2	23/03	97382	2	41,45/02;4/03
97218	3	21,41/02;6,33/03	97383	16	31/02;5,7,13/03
97219	4	21,25,31/02;6,9,13,20,23, 25/03	97384	4	47/02;19/03
97220	3	21,24,31,37,39,42,43, 44/02;6,8,9,17,18,23,29, 33/03	97385	10	31,52/02;5,6,7,9/03
97221	20	21,24,31,37,39,42,44,45, 49,52/02;6,8,9,10,13,17, 18,19,20,22,23,25,26,29, 33/03	97387	2	4,5,7/03
97222	12	25,28,47/02;10,22,29/03	97389	1	39/02
97223	3	42,44,48/02;16,17,22, 23/03	97390	5	31,39,40/02;2,5,12,16/03
97224	6	25,27,46,47,49/02	97391	26	31/02;6,7,12,16/03
97225	31	21,24,37,39,42,44,45/02; 6,8,9,10,17,18,19,23,25, 33/03	97392	5	21/02;1,21,23,26,33/03
97226	7	18/03	97396	14	21,36,39,40/02;2,16,17, 23,33/03
97227	11	21,24,42,43/02;9,18, 30/03	97397	7	25,39,49/02;16,26/03
97228	15	21,28,30,39,40,42,43/02; 5,6,9,15,17,18,20,21,22, 27,29/03	97398	3	21,25,49/02
97229	12	24,27,31,36,39,47/02;6,8, 9,18,28,33/03	97410	8	21/02;17,19/03
97230	18	29,36,52/02;6,9,28,33/03	97412	7	40/02
97231	11	21,41/02;6,23,33/03	97420	17	21,34,39,42,47,52/02;1,8, 10,33/03
97232	8	20,25/02;22,25,33/03	97421	13	20,35,36/02;1,10,13,20, 26/03
97233	11	31,33,43,44,49/02;1,5,6, 9,15,16,23,33/03	97423	2	20,35,36/02;1,13,20, 26/03
97234	17	29,43,47,49/02;1,6,8,9, 16/03	97425	6	34,39,47,52/02;1,6,8, 10/03
97236	20	31,47/02;9,16,23/03	97440	8	20,23,27,52/02;1,16,19, 27/03
97239	10	31,33/02;1,5,9,16,23/03	97441	5	20,46/02
97241	6	10/03	97443	6	15,19,25/03
97243	8	21,28,29,31,33,48/02;1,5, 6,21,27,33/03	97460	7	40/02;5,19,21/03
97244	5	9/03	97461	9	21/02;5,8,19,21,22,23, 26/03
97245	11	28,36/02;1,5,9,29/03	97465	9	21/02;1,6,8,19,20,22, 33/03
97246	7	43,52/02;5/03	97466	2	25,46/02;1,23,27/03
97251	4	6,10,17/03	97469	10	26/02;1,6,8,19,20,22, 33/03
97261	15	41/02;1,5,7,18,21,26/03	97471	5	N31/02;N22,N33/03
97262	10	21,29,34/02;1,5,6,7,15, 21,26,33/03	97472	8	34/02;33/03
97263	10	5,7,9,15,18,21/03	97474	7	21/02;22/03
97266	5	37,41/02;1,5,6,7,14,15, 18,26/03	97480	7	21,35,52/02;3,9,10,17,18, 21/03
97267	16	25,29,40,41/02;1,5,6,8, 10,13,18,26,27/03	97481	6	47,49/02;9,18,20/03
97268	10	6/03	97483	7	48,52/02;20/03
97269	11	20,45/02;8,13,18,27/03	97521	6	42/02;16,18,20/03
97270	6	36,44/02;1,5/03	97564	3	16/03
97271	12	25,29,37,39/02;6,10,12, 26/03	800669	8	N20/02
97272	11	52/02;6,10,12,14,23/03	800744	1	N22,N49/02;N5,N12, N13,N16/03
97273	10	27,34,42,45,49/02;6,8,9, 13,14,15,18/03	801217	1	N21/02;N6,N8,N19,N20, N22,N33/03
97274	19	27,31,34,39,45/02;6,9,15, 17,18,23/03	801885	3	N28/02
97276	1	27,29,40/02;9/03	801902	9	N25,N31/03
97277	11	27/02;1,5,6,8,9,14/03	802202	8	N23,N31,N35/02;N1, N7/03
97278	11	39/02;1,20/03	802260	5	N20/02
97279	9	27/02;9,27/03	803404	2	N26/02
97280	4	52/02	804037	1	N28/02
97281	2	41/02	804059	2	N20/02
97283	3	45/02;9/03	804567	4	N31/03
			805118	3	N12/03
			805647	2	N37,N51/02;N30/03
			806927	8	N25,N30/03
			807370	5	N17,N25,N30,N31/03
			807861	2	N27/02;N22/03
			808365	2	N14/03
			808528	1	N25/02
			809055	7	N16/03
			809310	9	N39/02
			809679	2	N25,N50/02;N12,N27/03

## SECTION II

NM 33/03

## NIMA HYDROGRAPHIC PRODUCTS CATALOG CORRECTIONS

Note: Underlining indicates that column in which a correction has been made or new information added.			Edition		Price Category	Page(s)	NTM
NIMA Ref. No. (National Stk. No.)	Title	Scale = 1:	No.	Date			
	REGION 2						
22XHA22322 (7642014011858)	Canceled					2-18,19, 20,21,62	33/03
	REGION 5						
53XHA53063 (7642014013094)	Golfe de Fos and Port de Fos	25,000	<u>9</u>	<u>5/03</u>	A	5-42	33/03
53AHA53133 (7642014007391)	Piombino, Gaeta and Formia		<u>4</u>	<u>5/03</u>	A	5-42	33/03
	Plans: A. Piombino	5,000					
	B. Gaeta and Formia	10,000					
56ACO56100 (7642014013186)	El-Iskandariya (Alexandria) to the Sinai	300,000	<u>14</u>	<u>5/03</u>	A	5-43	33/03
	Plan: Khalig Abu Qir	75,000					
	REGION 6						
62AHA62098 (7642014013356)	Bandar at Tawahi (Aden Harbor)	20,000	<u>7</u>	<u>5/03</u>	A	6-24	33/03
62BHA62366 (7642014013121)	<u>Khawr Fakkan, Port of Fujayrah and Approaches</u>	75,000	<u>4</u>	<u>5/03</u>	A	6-20,24	33/03
	Plans: A. <u>Khawr Fakkan</u>	15,000					
	B. <u>Port of Fujayrah</u>	15,000					
62BHA62391 (7642014013394)	<u>Plans on the Coast of Pakistan and Iran</u>		<u>5</u>	<u>6/03</u>	A	6-12,14, 15,24	33/03
	Plans: A. <u>Khalij-E Jask</u>	50,000					
	B. <u>Khawr-E Rapch</u>	25,000					
	C. <u>Dimi Zarr (For Plan C see page 6-15)</u>	200,000					
62BHA62437 (7642014013414)	<u>Khawr Shatanah and Approaches to Umm Qasr and Az Zubayr</u>	50,000	10	6/03	A	6-23	33/03
	Inset: <u>Umm Qasr</u>	25,000					
	<u>30 02N 47 58E</u>						
	MISCELLANEOUS CHARTS AND PUBLICATIONS						
LLPUB111 (7642014007532)	<u>The West Coasts of North and South America (Excluding Continental U.S.A. and Hawaii), Australia, Tasmania, New Zealand, and the Islands of the North and South Pacific Oceans, 2003</u>				GPO	10-22	33/03

Price Categories effective 1 October 2002

A	17.75	E	9.00	G	4.50	I	26.25
D	10.75	F	9.00	H	2.50	R	2.50

CHS Canadian Hydrographic Service  
DS Distribution Limited  
GPO Government Printing Office  
NOS National Ocean Service  
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For questions concerning the availability and distribution of announced charts, users should contact the Defense Logistics Agency (DLA) at 1-800-826-0342 or 804-279-6500; DSN 695-6500; Fax 804-279-6524.



## PUB 195 (Continued)

1. RP No. 11 Vaktaren (60°42.7'N., 17°36.2'E.).
2. RP No. 12 Purrutsgrund (60°46.7'N., 17°27.5'E.).
3. RP No. 13 Valkommen (60°57.8'N., 17°15.0'E.).
4. RP No. 21 Storjungfrun S (61°06.9'N., 17°21.3'E.).
5. RP No. 22 Blomman (61°11.5'N., 17°17.5'E.).
6. RP No. 23 Hallgrund (61°15.8'N., 17°22.0'E.).
7. RP No. 31 Tihallsten (61°31.5'N., 17°19.0'E.).
8. RP No. 32 Hudiksgrund (61°35.0'N., 17°24.0'E.).
9. RP No. 41 Britas Klack (61°53.1'N., 17°27.7'E.).
10. RP No. 51 Bramon S (62°10.0'N., 17°39.7'E.).
11. RP No. 52 Bramon N (62°17.4'N., 17°40.4'E.).
12. RP No. 53 Astholmsudde (62°22.8'N., 17°43.8'E.).
13. RP No. 61 \*Hamo (62°36.6'N., 18°05.8'E.).
14. RP No. 62 \*Storon S (62°43.4'N., 18°12.8'E.).
15. RP No. 63 \*Storon N (62°47.6'N., 18°17.0'E.).
16. RP No. 64 Ramon (62°50.0'N., 17°54.0'E.).
17. RP No. 65 Brunne (62°56.0'N., 17°50.0'E.).

\* Reporting at these RPs shall be carried out 30 minutes before passing.

Reports must include the vessel's name, call sign, position, and destination.

Vessels with an Automated Identification System (AIS) are exempted from reporting.

Vessels must report their name, position, and destination when arriving at or leaving a berth (including an anchorage), when changing route, when being involved in an accident (including groundings and collisions), and on the occurrence of any defect affecting the safety of navigation. The report should be sent 10 minutes prior to leaving a berth.

Participating vessels must maintain a continuous listening watch on VHF channel 13 after the first report.

Smaller vessels than those described above, which are fitted with VHF, should maintain a continuous VHF listening watch.

Gavle VTS may be contacted on VHF channels 16 and 13, and by E-mail at vtsgavle@sjofartsverket.se.

All vessels must proceed through Holmuddsranna, the main entrance channel, at a slow speed.

(BA NP 286) 33/03

Page 64—Lines 28 to 29/L; strike out.

(NIMA) 33/03

Page 68—Line 5/L; read:

**Regulations.**—A mandatory Reporting and Information System has been established in the Gulf of Bothnia and is operated by Vessel Traffic Services (VTS) at Gavle and Lulea. For further information, see Gavle (paragraph 6.7).

Speed restrictions apply within the entrance  
(BA NP 286) 33/03

Page 69—Line 1/R; read:

**Regulations.**—A mandatory Reporting and Information System has been established in the Gulf of Bothnia and is operated by Vessel Traffic Services (VTS) at Gavle and Lulea. For further information, see Gavle (paragraph 6.7).

At night, berthing at Oljekajen, the oil jetty,  
(BA NP 286) 33/03

Page 69—Line 29/R; read:

**Regulations.**—A mandatory Reporting and Information System has been established in the Gulf of Bothnia and is operated by Vessel Traffic Services (VTS) at Gavle and Lulea. For further information, see Gavle (paragraph 6.7).

Vessels bound to or from Skarnas Terminal  
(BA NP 286) 33/03

Page 72—Line 43/R; read:

bukten, about 2.5 miles E of Gubben Light.

**Regulations.**—A mandatory Reporting and Information System has been established in the Gulf of Bothnia and is operated by Vessel Traffic Services (VTS) at Gavle and Lulea. For further information, see Gavle (paragraph 6.7).

(BA NP 286) 33/03

Page 75—Line 1/R; read:

**Regulations.**—A mandatory Reporting and Information System has been established in the Gulf of Bothnia and is operated by Vessel Traffic Services (VTS) at Gavle and Lulea. For further information, see Gavle (paragraph 6.7).

Vessels must not exceed a speed of 5 knots in  
(BA NP 286) 33/03

Page 78—Line 23/R; read:

lights, resembles the gable of a house.

**Regulations.**—A mandatory Reporting and Information System has been established in the Gulf of Bothnia and is operated by Vessel Traffic Services (VTS) at Gavle and Lulea. For further information, see Lulea (paragraph 9.19).

(BA NP 286) 33/03

Page 79—Line 55/L; read:

**Regulations.**—A mandatory Reporting and Information System has been established in the Gulf of Bothnia and is operated by Vessel Traffic Services (VTS) at Gavle and Lulea. For further information, see Lulea (paragraph 9.19).

Vessels must not exceed a speed of 7 knots  
(BA NP 286) 33/03

Page 100—Line 26/R; read:

**Regulations.**—A mandatory Reporting and Information System has been established in the Gulf of Bothnia and is operated by Vessel Traffic Services (VTS) at Lulea and Gavle. For further information, see Lulea (paragraph 9.19).

It is reported that tankers over 13,000 dwt  
(BA NP 286) 33/03

Page 112—Line 15/L; read:

about 5 miles E of Gasoren Light.

**Regulations.**—A mandatory Reporting and Information System has been established in the Gulf of Bothnia and is operated by Vessel Traffic Services (VTS) at Gavle and Lulea. For further information, see Lulea (paragraph 9.19).

(BA NP 286) 33/03

**PUB 195 (Continued)**

Page 114—Line 46/L; read:  
hours prior to arrival. See paragraph 9.19 for more information.

**Regulations.**—A mandatory Reporting and Information System has been established in the Gulf of Bothnia and is operated by Vessel Traffic Services (VTS) at Gavle and Lulea. For further information, see Lulea (paragraph 9.19).  
(BA NP 286) 33/03

Page 115—Line 44/R; read:

A Reporting and Information System has been established in the Gulf of Bothnia and is operated by Vessel Traffic Services (VTS) at Lulea and Gavle.

The system is mandatory for vessels over 300 grt; vessels over 50m in length; and towing vessels with a length, including the tow, of over 50m.

Participating vessels must report to VTS Lulea on the assigned VHF channels when passing the following Reporting Points (RP):

1. RP No. 7 Maloren (65°32'N., 23°25'E.)—channel 14.
2. RP No. 8 Nygran (65°01'N., 21°46'E.)—channel 13.
3. RP No. 9 Gasoren (65°40'N., 21°30'E.)—channel 13.
4. RP No. 10 Vaktaren (63°33'N., 20°30'E.)—channel 12.
5. RP No. 11 Logaren (63°32'N., 20°05'E.)—channel 12.
6. RP No. 12 Storbaden (63°21'N., 19°35'E.)—channel 14.
7. RP No. 13 Vallinsgrund (63°18'N., 19°20'E.)—channel 14.
8. RP No. 14 Skagshallan (63°10'N., 19°00'E.)—channel 14.
9. RP No. 15 Trysunda (63°10'N., 18°48'E.)—channel 14.

Reports must include the vessel's name, call sign, position, and destination.

Vessels with an Automated Identification System (AIS) are exempted from reporting.

Vessels must report their name, position, and destination when arriving at or leaving a berth (including an anchorage), when changing route, when being involved in an accident (including groundings and collisions), and on the occurrence of any defect affecting the safety of navigation. The report should be sent 10 minutes prior to leaving a berth.

Participating vessels must maintain a continuous listening watch on the assigned VHF channel after the first report.

Smaller vessels than those described above, which are fitted with VHF, should maintain a continuous VHF listening watch.

Lulea VTS may be contacted by E-mail at vtslulea@sjofartsverket.se.

Sandolelen is considered to be that part of the fairway  
(BA NP 286) 33/03

Page 116—Line 1/L; read:

A local mandatory Vessel Traffic Service (VTS) system is (NIMA) 33/03

Page 116—Line 18/L; read:

The VTS Traffic Information Center will, on request, maintain a watch on VHF channel 16 for those vessels unable to operate watches on dual VHF channels.

Vessels over 15m in length or 4m beam must contact the VTS Traffic Information Center prior to attempting the passage through Tjuvholmsundet (see paragraph 9.18).

The VTS Traffic Information Center will provide, on re-  
(BA NP 286) 33/03

**COAST PILOT CORRECTIONS**

<b>COAST PILOT 1</b>	<b>33 Ed 2003</b>	<b>Change No. 8</b>
		<b>LAST NM 32/03</b>

Page 57—Paragraph 175, lines 7 to 8; read:  
161.12(c) (VTS and VMRS Centers, Call Signs/MMSI, Designated Frequencies, and Monitoring Areas).  
(FR 7/1/03) 33/03

Page 58 to Page 59; strike out.  
(FR 7/1/03) 33/03

Page 91—Paragraph 977, line 4; read:  
which the direction of traffic may be recommended.  
*Navigable waters* means all navigable waters of the United States including the territorial sea of the United States, extending to 12 nautical miles from United States baselines, as described in Presidential Proclamation No. 5928 of December 27, 1988.  
(FR 7/1/03) 33/03

Page 91—Paragraphs 979 to 983; read:  
*Vessel Movement Center (VMC)* means the shore-based facility that operates the vessel tracking system for a Vessel Movement Reporting System (VMRS) area or sector within such an area. The VMC does not necessarily have the capability or qualified personnel to interact with marine traffic, nor does it necessarily respond to traffic situations developing in the area, as does a Vessel Traffic Service (VTS).  
*Vessel Movement Reporting System (VMRS)* means a mandatory reporting system used to monitor and track vessel movements. This is accomplished by a vessel providing information under established procedures as set forth in this part in the areas defined in Table 161.12(c) (VTS and VMRS Centers, Call Signs/MMSI, Designated Frequencies, and Monitoring Areas).

*Vessel Movement Reporting System (VMRS) User* means a vessel, or an owner, operator, charterer, Master, or person directing the movement of a vessel that is required to participate in a VMRS.  
(FR 7/1/03) 33/03

**COAST PILOT 1 (Continued)**

Page 92—Paragraph 1016, line 1; read:

- (b) If, in a specific circumstance, a VTS User is unable ...  
(FR 7/1/03) 33/03

Page 95—Paragraph 1017, line 1 to Paragraph 1019; read:

(c) When not exchanging voice communications, a VTS User must maintain a listening watch as required by §26.04(e) of this chapter on the VTS frequency designated in Table 161.12(c) (VTS and VMRS Centers, Call Signs/MMSI, Designated Frequencies, and Monitoring Areas). In addition, the VTS User must respond promptly when hailed and communicated in the English language.

**Note to §161.12(c):** As stated in 47 CFR 80.148(b), a very high frequency watch on Channel 16 (156.800 MHz) is not required on vessels subject to the Vessel Bridge-to-Bridge Radiotelephone Act and participating in a Vessel Traffic Service (VTS) system when the watch is maintained on both the vessel bridge-to-bridge frequency and a designated VTS frequency.

- (d) As soon as practicable a VTS User shall notify the VTS ...  
(FR 7/1/03) 33/03

Page 95—Paragraph 1035, lines 2 to 5; read:

a system used to monitor and track vessel movements within a VTS or VMRS area. This is accomplished by requiring that vessels provide information under established procedures as set forth in this part, or as directed by the Center.  
(FR 7/1/03) 33/03

Page 95—Paragraph 1036, line 4 to Paragraph 1037; read: to achieve the objectives of the VMRS. These reports are consolidated into three reports (sailing plan, position, and final).

**§161.16 Applicability.**

Unless otherwise stated, the provisions of this subpart apply to the following vessels and VMRS Users:  
(FR 7/1/03) 33/03

Page 95—Paragraph 1040, line 2 to Paragraph 1042, line 1; read: passengers for hire, when engaged in trade.

**§161.17 Definitions.**

As used in the subpart:  
*Center* means a Vessel Traffic Center or Vessel Movement Center.  
*Published* means available in a widely-distributed and publicly available medium (e.g., VTS User's Manual, ferry

schedule, Notice to Mariners).

**§161.18 Reporting requirements.**

- (a) A Center may: (1) Direct a vessel to provide any of ...  
(FR 7/1/03) 33/03

Page 95—Paragraph 1045, lines 2 to 4; read: soon as is practicable on the frequency designated in Table 161.12(c) (VTS and VMRS Centers, Call Signs/MMSI, Designated Frequencies, and Monitoring Areas).  
(FR 7/1/03) 33/03

Page 95—Paragraph 1046, lines 3 to 4; read: described in §26.04 (e) of this chapter on the frequency designated in Table 161.12(c) (VTS and VMRS Centers, Call Signs/MMSI, ...  
(FR 7/1/03) 33/03

Page 97—Paragraph 1047, line 7 to Paragraph 1048, line 1; read:

- VTS frequency.
- (d) A vessel must report:
    - (1) Any significant deviation from its Sailing Plan, as defined in §161.19, or from previously reported information; or
    - (2) Any intention to deviate from a VTS issued measure or vessel traffic routing system.
  - (e) When reports required by this part include time ...  
(FR 7/1/03) 33/03

Page 97—Paragraphs 1057 to 1064; read:

- (a) Upon point of entry into a VMRS area;
- (b) At designated points as set forth in Subpart C; or
- (c) When directed by the Center.

**§161.21 Automated reporting.**

- (a) Unless otherwise directed, vessels equipped with an Automatic Identification System (AIS) are required to make continuous, all stations, AIS broadcasts, in lieu of voice Position Reports, to those Centers denoted in Table 161.12(c) of this part.
- (b) Should an AIS become non-operational, while or prior to navigating a VMRS area, it should be restored to operating condition as soon as possible, and, until restored a vessel must:
  - (1) Notify the Center;
  - (2) Make voice radio Position Reports at designated reporting points as required by §161.20(b) of this part; and
  - (3) Make any other reports as directed by the Center.  
(FR 7/1/03) 33/03

Page 93 to Page 94; read:

TABLE 161.12(C).—VTS and VMRS Centers, Call Signs/MMSI, Designated Frequencies, and Monitoring Areas		
Center MMSI <sup>1</sup> Call Sign	Designated frequency (Channel designation)—purpose <sup>2</sup>	Monitoring area <sup>3, 4</sup>

## COAST PILOT 1 (Continued)

Berwick Bay—003669950 <i>Berwick Traffic</i>	156.550 MHz (Ch. 11)	The waters south of 29°45'N., west of 91°10'W., north of 29°37'N., and east of 91°18'W.
Houston-Galveston— 003669954		The navigable waters north of 29°N., west of 94°20'W., south of 29°49'N., and east of 95°20'W.
<i>Houston Traffic</i>	156.550 MHz (Ch. 11) 156.250 MHz (Ch. 5A)— For Sailing Plans only	The navigable waters north of a line extending due west from the southern most end of Exxon Dock #1 (20°43.37'N., 95°01.27'W.)
<i>Houston Traffic</i>	156.600 MHz (Ch. 12) 156.250 MHz (Ch. 5A)— For Sailing Plans only	The navigable waters south of a line extending due west from the southern most end of Exxon Dock #1 (20°43.37'N., 95°01.27'W.)
Los Angeles/Long Beach: MMSI/To be determined <i>San Pedro Traffic</i>	156.700 MHz (Ch. 14)	<i>Vessel Movement Reporting System Area:</i> The navigable waters within a 25 nautical mile radius of Point Fermin Light (33°42.3'N., 118°17.6'W.)
Louisville: Not applicable <i>Louisville Traffic</i>	156.650 MHz (Ch. 13)	The waters of the Ohio River between McAlpine Locks (Mile 606) and Twelve Mile Island (Mile 593), only when the McAlpine upper pool gauge is at approximately 13.0 feet or above.
Lower Mississippi River <sup>5</sup> — 003669952		
<i>New Orleans Traffic</i>	156.700 MHz (Ch. 14)	The navigable waters of the Lower Mississippi River below 30°38.7'N., 91°17.5'W. (Port Hudson Light at 255 miles Above Head of Passes (AHP)), the Southwest Pass, and, within a 12 nautical miles radius around 28°54.3'N., 89°25.7'W. (Southwest Pass Entrance Light at 19.9 miles Below Head of Passes).
<i>New Orleans Traffic</i>	156.600 MHz (Ch. 12)	<i>New Orleans Sector.</i> The navigable waters of the Lower Mississippi River bounded on the north by a line drawn perpendicular at 29°56.4'N., 90°08.36'W. and on the south by a line drawn perpendicularly at 29°56.24'N., 89°59.86'W. (88 and 106 miles AHP).
New York —003669951 <i>New York Traffic</i>	156.550 MHz (Ch.11)—For Sailing Plans only 156.600 MHz (Ch. 12)— For vessels at anchor	The area consists of the navigable waters of the Lower New York Bay bounded on the east by a line drawn from Norton Point to Breezy Point; on the south by a line connecting the entrance buoys at the Ambrose Channel, Swash Channel, and Sandy Hook Channel to Sandy Hook Point; and on the southeast including the waters of Sandy Hook Bay south to a line drawn at latitude 40°25'N.; then west in the Raritan Bay to the Raritan River Railroad Bridge, then north into waters of the Arthur Kill and Newark Bay to the Lehigh Valley Draw Bridge at latitude 40°41.9'N.; and then east including the waters of the Kill Van Kull and the Upper New York Bay north to a line drawn east-west from the Holland Tunnel ventilator shaft at latitude 40°43.7'N., longitude 74°01.6'W., in the Hudson River; and then continuing east including the waters of the East River to the Throgs Neck Bridge, excluding the Harlem River.

## COAST PILOT 1 (Continued)

<i>New York Traffic</i>	156.700 MHz (Ch. 14)	The navigable waters of the Lower New York Bay west of a line drawn from Norton Point to Breezy Point; and north of a line connecting the entrance buoys of Ambrose Channel, Swash Channel, and Sandy Hook Channel, to Sandy Hook Point; on the southeast including the waters of the Sandy Hook Bay south to a line drawn at latitude 40°25'N.; then west into the waters of Raritan Bay East Reach to a line drawn from Great Kills Light south through Raritan Bay East Reach LGB #14 to Comfort PT, NJ; then north including the waters of the Upper New York Bay south of 40°42.40'N. (Brooklyn Bridge) and 40°43.70'N. (Holand Tunnel Ventilator Shaft); west through the KVK into the Arthur Kill north of 40°38.25'N. (Arthur Kill Railroad Bridge); then north into the waters of the Newark Bay, south of 40°41.95'N. (Lehigh Valley Draw Bridge).
<i>New York Traffic</i>	156.600 MHz (Ch. 12)	The navigable waters of the Raritan Bay south to a line drawn at latitude 40°26'N.; then west of a line drawn from Great Kills Light south through the Raritan Bay East Reach LGB #14 to Point Comfort, NJ; then west to the Raritan River Railroad Bridge; and north including the waters of the Arthur Kill to 40°28.25'N. (Arthur Kill Railroad Bridge); including the waters of the East River north of 40°42.40'N. (Brooklyn Bridge) to the Throgs Neck Bridge, excluding the Harlem River.
Port Arthur <sup>5</sup> —003669955 <i>Sabine Traffic</i>	To be determined	The navigable waters south of 30°10'N., east of 94°20'W., west of 93°22'W. and, north of 29°10'N.
Prince William Sound— 003669958 <i>Valdez Traffic</i>	156.650 MHz (Ch. 13)	The navigable waters south of 61°05'N., east of 147°20'W., north of 60°N., and west of 146°30'W.; and, all navigable waters in Port Valdez.
Puget Sound <sup>6</sup> <i>Seattle Traffic</i> —003669957	156.700 MHz (Ch. 14)	The waters of Puget Sound, Hood Canal and adjacent waters south of a line connecting Marrowstone Point and Lagoon Point in Admiralty Inlet and south of a line drawn due east from the southernmost tip of Possession Point on Whidbey Island to the shoreline.
<i>Seattle Traffic</i> —003669957	156.250 MHz (Ch. 5A)	The waters of the Strait of Juan de Fuca east of 124°40'W. excluding the waters in the central portion of the Strait of Juan de Fuca north and east of Race Rocks; the navigable waters of the Strait of Georgia east of 122°52'W.; the San Juan Island Archipelago, Rosario Strait, Bellingham Bay; Admiralty Inlet north of a line connecting Marrowstone Point and Lagoon Point and all waters east of Whidbey Island North of a line drawn due east from the southernmost tip of Possession Point on Whidbey Island to the shoreline.
<i>Tofino Traffic</i> —003160012	156.725 MHz (Ch. 74)	The waters west of 124°40'W. within 50 nautical miles of the coast of Vancouver Island including the waters north of 48°N., and east of 127°W.
<i>Victoria Traffic</i> —003160010	156.550 MHz (Ch. 11)	The waters of the Strait of Georgia west of 122°52'W., the navigable waters of the central Strait of Juan de Fuca north and east of Race Rocks, including the Gulf Island Archipelago, Boundary Pass and Haro Strait.

## COAST PILOT 1 (Continued)

San Francisco—003669956 <i>San Francisco Traffic</i>	156.700 MHz (Ch. 14)	The navigable waters of the San Francisco Offshore Precautionary Area, the navigable waters shoreward of the San Francisco Offshore Precautionary Area east of 122°42.0'W. and north of 37°40.0'N. extending eastward through the Golden Gate, and the navigable waters of San Francisco Bay and as far east as the port of Stockton on the San Joaquin River, as far north as the port of Sacramento on the Sacramento River.
<i>San Francisco Traffic</i>	156.600 MHz (Ch. 12)	The navigable waters within a 38 nautical mile radius of Mount Tamalpais (37°55.8'N., 122°34.6'W.) west of 122°42.0'W. and south of 37°40.0'N. and excluding the San Francisco Offshore Precautionary Area.
St. Marys River—003669953 <i>Soo Traffic</i>	156.600 MHz (Ch. 12)	The waters of the St. Marys River between 45°57'N. (De Tour Reef Light) and 46°38.7'N. (Ile Parisienne Light), except the St. Marys Falls Canal and those navigable waters east of a line from 46°04.16'N. and 46°01.57'N. (La Pointe to Sims Point in Potagannissing Bay and Worsley Bay).
<p><b>Notes:</b></p> <p><sup>1</sup>Maritime Mobile Service Identifier (MMSI) is a unique nine-digit number assigned that identifies ship stations, ship earth stations, coast stations, coast earth stations, and group calls for use by a digital selective calling (DSC) radio, an INMARSAT ship earth station or AIS. AIS requirements are set forth in §§161.21 and 164.46 of this subchapter.</p> <p><sup>2</sup>In the event of a communication failure, difficulties or other safety factors, the Center may direct or permit a user to monitor and report on any other designated monitoring frequency or the bridge-to-bridge navigational frequency, 156.650 MHz (Channel 13) or 156.375 MHz (Ch. 67), to the extent that doing so provides a level of safety beyond that provided by other means. The bridge-to-bridge navigational frequency, 156.650 MHz (Ch. 13), is used in certain monitoring areas where the level of reporting does not warrant a designated frequency.</p> <p><sup>3</sup>All geographic coordinates (latitude and longitude) are expressed in North American Datum of 1983 (NAD 83).</p> <p><sup>4</sup>Some monitoring areas extend beyond navigable waters. Although not required, users are strongly encouraged to maintain a listening watch on the designated monitoring frequency in these areas. Otherwise, they are required to maintain watch as stated in 47 CFR 80.148.</p> <p><sup>5</sup>Until rules regarding VTS Lower Mississippi River and VTS Port Arthur are published, vessels are exempted of all VTS and VMRS requirements set forth in 33 CFR part 161, except those set forth in §§161.21 and 161.46 of this subchapter.</p> <p><sup>6</sup>A Cooperative Vessel Traffic Service was established by the United States and Canada within adjoining waters. The appropriate Center administers the rules issued by both nations; however, enforces only its own set of rules within its jurisdiction. Note, the bridge-to-bridge navigational frequency, 156.650 MHz (Ch. 13), is not so designated in Canadian waters, therefore users are encouraged and permitted to make passing arrangements on the designated monitoring frequencies.</p>		

(FR 7/1/03)

33/03

**COAST PILOT 1            33 Ed 2003            Change No. 10**

Page 97—Paragraph 1073, line 3; read:

VMRS area; and ...

(FR 7/1/03)

33/03

Page 100—Paragraph 1095, line 3; read:

more gross tons (except as provided in paragraphs (c) and (d) of ...

(FR 7/1/03)

33/03

Page 97—Paragraph 1075 to Page 98—Paragraph 1085, line 1; read:

capabilities are set forth in §164.43 of this chapter.

Page 101—Paragraph 1101, lines 1 to 2; read:

(c) Provisions of §§164.11(a)(2) and (c), 164.30, 164.33, and 164.46 do not apply to warships or other vessels ...

(FR 7/1/03)

33/03

**Subpart C—Vessel Traffic Service and Vessel Movement Reporting System Areas and Reporting Points****Note:** All geographic coordinates contained in part 161 ...

(FR 7/1/03)

33/03

Page 101—Paragraph 1101, line 7; read: regulations regarding navigation safety.

(d) Provisions of §164.46 apply to some self-propelled

**COAST PILOT 1 (Continued)**

vessels of less 1600 gross tonnage.  
(FR 7/1/03) 33/03

Page 101—Paragraph 1102, line 1; read:

(a) Except as provided in §164.46(a)(2) of this part (including §§164.38 and 164.39) does ...  
(FR 7/1/03) 33/03

Page 101—Paragraph 1114, line 3; read:

..... 164.74

**International Electrotechnical Commission (IEC)**

3, rue de Varemb, Geneva, Switzerland.

IEC 61993-2, Maritime navigation and radiocommunication equipment and systems—Automatic identification systems (AIS)—part 2: Class A shipborne equipment of the universal automatic identification system (AIS)—Operational and performance requirements, methods of test and required test results First edition, 2001-12 .....164.46  
(FR 7/1/03) 33/03

Page 101—Paragraph 1115, line 5; read:

1975 .....164.13

Resolution MSC.74(69), Annex 3, Recommendation on Performance Standards for a Universal Shipborne Automatic Identification System (AIS), adopted May 12, 1998...164.46

SN/Circ.277, Guidelines for the Installation of a Shipborne Automatic Identification System (AIS), dated January 6, 2003 .....164.46

SOLAS, International Convention for Safety of Life at Sea, 1974, and 1988 Protocol relating thereto, 2000 Amendments, effective January and July 2002, (SOLAS 2000 Amendments) .....164.46

Conference resolution 1, Adoption of amendments to the Annex to the International Convention for the Safety of Life at Sea, 1974, and amendments to Chapter V of SOLAS 1974, adopted December 12, 2002 .....164.46  
(FR 7/1/03) 33/03

Page 101—Paragraph 1118, line 5; read:

.....164.43

ITU-R Recommendation M.1371-1, Technical characteristics for a universal shipborne automatic identification system using time division multiple access in the VHF maritime mobile band, 1998-2001 .....164.46  
(FR 7/1/03) 33/03

Page 106—Paragraph 1285, line 3 to Paragraph 1286, line 2; read:

with a rate of turn indicator.

**§164.43 Automatic Identification System Shipborne Equipment—Prince William Sound.**

(a) Until July 1, 2004, each vessel required to provide automated position reports to a Vessel Traffic Service (VTS) under §165.1704 of this subchapter must do so ...  
(FR 7/1/03) 33/03

Page 107—Paragraph 1304, line 2; read:  
operating procedures are set forth in Part 161 of this chapter.

**§164.46 Automatic Identification System (AIS).**

(a) The following vessels must have an installed, operational AIS that complies with the IMO Resolution MSC.74(69), ITU-R Recommendation M.1371-1, and IEC 61993-2, and that is installed using IMO SN/Circ.277 (Incorporated by reference, see §164.03) as of the date specified. “Length” refers to “registered length” as defined in 46 CFR, part 69.

(1) Self-propelled vessels of 65 feet or more in length engaged in commercial service and on an international voyage, not later than December 31, 2004.

(2) Notwithstanding paragraph (a)(1) of this section, the following vessels subject to the International Convention for Safety at Life at Sea, 1974, (SOLAS) as amended, that are on an international voyage must also comply with SOLAS, chapter V, as amended by SOLAS 2000 Amendments and Conference resolution 1 (Incorporated by reference, see §164.03):

(i) Passenger vessels, of 150 gross tonnage or more, not later than July 1, 2003;

(ii) Tankers, regardless of tonnage, not later than the first safety survey for safety equipment on or after July 1, 2003;

(iii) Vessels, other than passenger vessels or tankers, of 50,000 gross tonnage or more, not later than July 1, 2004; and

(iv) Vessels, other than passenger vessels or tankers, of 300 gross tonnage or more but less than 50,000 gross tonnage, not later than the first safety survey for safety equipment on or after July 1, 2004, but no later than December 31, 2004.

(b) Notwithstanding paragraphs (a)(1) and (a)(2) of this section, the following vessels, transiting an area listed in table 161.12(c) of §161.12 of this part.

(1) Each self-propelled vessel of 65 feet or more in length, engaged in commercial service;

(2) Each towing vessel of 26 feet or more in length and more than 600 horsepower;

(3) Each vessel of 100 gross tons or more carrying one or more passengers for hire; and

(4) Each passenger vessel certificated to carry 50 or more passengers for hire.

(c) The vessels listed in paragraph (b) of this section must comply according to the following schedule:

(1) For VTS St. Marys River, not later than December 31, 2003;

(2) For VTS Berwick Bay, VMRS Los Angeles/Long Beach, VTS Lower Mississippi River, VTS Port Arthur and VTS Prince William Sound, not later than July 1, 2004; and

(3) For VTS Houston-Galveston, VTS New York, VTS Puget Sound, and VTS San Francisco, not later than December 31, 2004.

(d) The requirements for Vessel Bridge-to-Bridge radiotelephones in §§26.04(a) and (c), 26.05, 26.06 and 26.07 of this chapter, also apply to AIS. The term “effective operating condition” used in §26.06 includes accurate input and

**COAST PILOT 1 (Continued)**

upkeep of all AIS data fields, including estimated time of arrival, destination, and number of people on board.

(e) The use of a portable AIS is permissible, only to the extent that electromagnetic interference does not affect the proper function of existing navigation and communication equipment on board, and such that only one AIS unit may be in operation at any one time.

(f) The AIS Pilot Plug, on each vessel over 1,600 gross tons, on international voyage, shall be available for pilot use, easily accessible from the primary conning position of the vessel, and near an AC power receptacle.

(FR 7/1/03) 33/03

**COAST PILOT 2            32 Ed 2003            Change No. 14  
LAST NM 32/03**

Page 47 to Page 48; strike out.

(FR 7/1/03) 33/03

Page 49—Paragraph 32, lines 7 to 8; read:  
161.12(c) (VTS and VMRS Centers, Call Signs/MMSI, Designated Frequencies, and Monitoring Areas).

(FR 7/1/03) 33/03

Page 100—Paragraph 1410, line 4; read:

which the direction of traffic may be recommended.

*Navigable waters* means all navigable waters of the United States including the territorial sea of the United States, extending to 12 nautical miles from United States baselines, as described in Presidential Proclamation No. 5928 of December 27, 1988.

(FR 7/1/03) 33/03

Page 100—Paragraphs 1412 to 1416; read:

*Vessel Movement Center (VMC)* means the shore-based facility that operates the vessel tracking system for a Vessel Movement Reporting System (VMRS) area or sector within such an area. The VMC does not necessarily have the capability or qualified personnel to interact with marine traffic, nor does it necessarily respond to traffic situations developing in the area, as does a Vessel Traffic Service (VTS).

*Vessel Movement Reporting System (VMRS)* means a mandatory reporting system used to monitor and track vessel movements. This is accomplished by a vessel providing information under established procedures as set forth in this part in the areas defined in Table 161.12(c) (VTS and VMRS Centers, Call Signs/MMSI, Designated Frequencies, and Monitoring Areas).

*Vessel Movement Reporting System (VMRS) User* means a vessel, or an owner, operator, charterer, Master, or person directing the movement of a vessel that is required to participate in a VMRS.

(FR 7/1/03) 33/03

Page 103—Paragraph 1449, line 1; read:

(b) If, in a specific circumstance, a VTS User is unable ...  
(FR 7/1/03) 33/03

Page 103—Paragraph 1450, line 1 to Paragraph 1452; read:

(c) When not exchanging voice communications, a VTS User must maintain a listening watch as required by §26.04(e) of this chapter on the VTS frequency designated in Table 161.12(c) (VTS and VMRS Centers, Call Signs/MMSI, Designated Frequencies, and Monitoring Areas). In addition, the VTS User must respond promptly when hailed and communicated in the English language.

**Note to §161.12(c):** As stated in 47 CFR 80.148(b), a very high frequency watch on Channel 16 (156.800 MHz) is not required on vessels subject to the Vessel Bridge-to-Bridge Radiotelephone Act and participating in a Vessel Traffic Service (VTS) system when the watch is maintained on both the vessel bridge-to-bridge frequency and a designated VTS frequency.

(d) As soon as practicable a VTS User shall notify ...  
(FR 7/1/03) 33/03

Page 105—Paragraph 1468, lines 2 to 6; read:

a system used to monitor and track vessel movements within a VTS or VMRS area. This is accomplished by requiring that vessels provide information under established procedures as set forth in this part, or as directed by the Center.

(FR 7/1/03) 33/03

Page 105—Paragraph 1469, line 5 to Paragraph 1470; read:  
are consolidated into three reports (sailing plan, position, and final).

**§161.16 Applicability.**

Unless otherwise stated, the provisions of this subpart apply to the following vessels and VMRS Users:

(FR 7/1/03) 33/03

Page 105—Paragraph 1474, line 1 to Paragraph 1475; read:

As used in the subpart:

*Center* means a Vessel Traffic Center or Vessel Movement Center.

*Published* means available in a widely-distributed and publicly available medium (e.g., VTS User's Manual, ferry schedule, Notice to Mariners).

**§161.18 Reporting requirements.**

(a) A Center may: (1) Direct a vessel to provide any of ...  
(FR 7/1/03) 33/03

Page 105—Paragraph 1478, lines 3 to 4; read:

Table 161.12(c) (VTS and VMRS Centers, Call Signs/MMSI, Designated Frequencies, and Monitoring Areas).

(FR 7/1/03) 33/03

Page 105—Paragraph 1479, line 4; read:

designated in Table 161.12(c) (VTS and VMRS Centers, Call Signs/MMSI, ...

(FR 7/1/03) 33/03

Page 105—Paragraph 1480, line 7 to Paragraph 1481, line

## COAST PILOT 2 (Continued)

1; read:

(e) When reports required by this part include time ...

VTS frequency.

(FR 7/1/03)

33/03

(d) A vessel must report:

(1) Any significant deviation from its Sailing Plan, as defined in §161.19, or from previously reported information; or

COAST PILOT 2

32 Ed 2003

Change No. 15

(2) Any intention to deviate from a VTS issued measure or vessel traffic routing system.

Page 101 to Page 102; read:

**TABLE 161.12(C).—VTS and VMRS Centers, Call Signs/MMSI, Designated Frequencies, and Monitoring Areas**

Center MMSI <sup>1</sup> Call Sign	Designated frequency (Channel designation)—purpose <sup>2</sup>	Monitoring area <sup>3, 4</sup>
Berwick Bay—003669950 <i>Berwick Traffic</i>	156.550 MHz (Ch. 11)	The waters south of 29°45'N., west of 91°10'W., north of 29°37'N., and east of 91°18'W.
Houston-Galveston— 003669954		The navigable waters north of 29°N., west of 94°20'W., south of 29°49'N., and east of 95°20'W.
<i>Houston Traffic</i>	156.550 MHz (Ch. 11) 156.250 MHz (Ch. 5A)— For Sailing Plans only	The navigable waters north of a line extending due west from the southern most end of Exxon Dock #1 (20°43.37'N., 95°01.27'W.)
<i>Houston Traffic</i>	156.600 MHz (Ch. 12) 156.250 MHz (Ch. 5A)— For Sailing Plans only	The navigable waters south of a line extending due west from the southern most end of Exxon Dock #1 (20°43.37'N., 95°01.27'W.)
Los Angeles/Long Beach: MMSI/To be determined <i>San Pedro Traffic</i>	156.700 MHz (Ch. 14)	<i>Vessel Movement Reporting System Area:</i> The navigable waters within a 25 nautical mile radius of Point Fermin Light (33°42.3'N., 118°17.6'W.)
Louisville: Not applicable <i>Louisville Traffic</i>	156.650 MHz (Ch. 13)	The waters of the Ohio River between McAlpine Locks (Mile 606) and Twelve Mile Island (Mile 593), only when the McAlpine upper pool gauge is at approximately 13.0 feet or above.
Lower Mississippi River <sup>5</sup> — 003669952		
<i>New Orleans Traffic</i>	156.700 MHz (Ch. 14)	The navigable waters of the Lower Mississippi River below 30°38.7'N., 91°17.5'W. (Port Hudson Light at 255 miles Above Head of Passes (AHP)), the Southwest Pass, and, within a 12 nautical miles radius around 28°54.3'N., 89°25.7'W. (Southwest Pass Entrance Light at 19.9 miles Below Head of Passes).
<i>New Orleans Traffic</i>	156.600 MHz (Ch. 12)	<i>New Orleans Sector.</i> The navigable waters of the Lower Mississippi River bounded on the north by a line drawn perpendicular at 29°56.4'N., 90°08.36'W. and on the south by a line drawn perpendicularly at 29°56.24'N., 89°59.86'W. (88 and 106 miles AHP).

## COAST PILOT 2 (Continued)

New York —003669951 <i>New York Traffic</i>	156.550 MHz (Ch.11)—For Sailing Plans only 156.600 MHz (Ch. 12)—For vessels at anchor	The area consists of the navigable waters of the Lower New York Bay bounded on the east by a line drawn from Norton Point to Breezy Point; on the south by a line connecting the entrance buoys at the Ambrose Channel, Swash Channel, and Sandy Hook Channel to Sandy Hook Point; and on the southeast including the waters of Sandy Hook Bay south to a line drawn at latitude 40°25'N.; then west in the Raritan Bay to the Raritan River Railroad Bridge, then north into waters of the Arthur Kill and Newark Bay to the Lehigh Valley Draw Bridge at latitude 40°41.9'N.; and then east including the waters of the Kill Van Kull and the Upper New York Bay north to a line drawn east-west from the Holland Tunnel ventilator shaft at latitude 40°43.7'N., longitude 74°01.6'W., in the Hudson River; and then continuing east including the waters of the East River to the Throgs Neck Bridge, excluding the Harlem River.
<i>New York Traffic</i>	156.700 MHz (Ch. 14)	The navigable waters of the Lower New York Bay west of a line drawn from Norton Point to Breezy Point; and north of a line connecting the entrance buoys of Ambrose Channel, Swash Channel, and Sandy Hook Channel, to Sandy Hook Point; on the southeast including the waters of the Sandy Hook Bay south to a line drawn at latitude 40°25'N.; then west into the waters of Raritan Bay East Reach to a line drawn from Great Kills Light south through Raritan Bay East Reach LGB #14 to Comfort PT, NJ; then north including the waters of the Upper New York Bay south of 40°42.40'N. (Brooklyn Bridge) and 40°43.70'N. (Holland Tunnel Ventilator Shaft); west through the KVK into the Arthur Kill north of 40°38.25'N. (Arthur Kill Railroad Bridge); then north into the waters of the Newark Bay, south of 40°41.95'N. (Lehigh Valley Draw Bridge).
<i>New York Traffic</i>	156.600 MHz (Ch. 12)	The navigable waters of the Raritan Bay south to a line drawn at latitude 40°26'N.; then west of a line drawn from Great Kills Light south through the Raritan Bay East Reach LGB #14 to Point Comfort, NJ; then west to the Raritan River Railroad Bridge; and north including the waters of the Arthur Kill to 40°28.25'N. (Arthur Kill Railroad Bridge); including the waters of the East River north of 40°42.40'N. (Brooklyn Bridge) to the Throgs Neck Bridge, excluding the Harlem River.
Port Arthur <sup>5</sup> —003669955 <i>Sabine Traffic</i>	To be determined	The navigable waters south of 30°10'N., east of 94°20'W., west of 93°22'W. and, north of 29°10'N.
Prince William Sound— 003669958 <i>Valdez Traffic</i>	156.650 MHz (Ch. 13)	The navigable waters south of 61°05'N., east of 147°20'W., north of 60°N., and west of 146°30'W.; and, all navigable waters in Port Valdez.
Puget Sound <sup>6</sup> <i>Seattle Traffic</i> —003669957	156.700 MHz (Ch. 14)	The waters of Puget Sound, Hood Canal and adjacent waters south of a line connecting Marrowstone Point and Lagoon Point in Admiralty Inlet and south of a line drawn due east from the southernmost tip of Possession Point on Whidbey Island to the shoreline.

## COAST PILOT 2 (Continued)

<i>Seattle Traffic</i> —003669957	156.250 MHz (Ch. 5A)	The waters of the Strait of Juan de Fuca east of 124°40'W. excluding the waters in the central portion of the Strait of Juan de Fuca north and east of Race Rocks; the navigable waters of the Strait of Georgia east of 122°52'W.; the San Juan Island Archipelago, Rosario Strait, Bellingham Bay; Admiralty Inlet north of a line connecting Marrowstone Point and Lagoon Point and all waters east of Whidbey Island North of a line drawn due east from the southernmost tip of Possession Point on Whidbey Island to the shoreline.
<i>Tofino Traffic</i> —003160012	156.725 MHz (Ch. 74)	The waters west of 124°40'W. within 50 nautical miles of the coast of Vancouver Island including the waters north of 48°N., and east of 127°W.
<i>Victoria Traffic</i> —003160010	156.550 MHz (Ch. 11)	The waters of the Strait of Georgia west of 122°52'W., the navigable waters of the central Strait of Juan de Fuca north and east of Race Rocks, including the Gulf Island Archipelago, Boundary Pass and Haro Strait.
San Francisco—003669956 <i>San Francisco Traffic</i>	156.700 MHz (Ch. 14)	The navigable waters of the San Francisco Offshore Precautionary Area, the navigable waters shoreward of the San Francisco Offshore Precautionary Area east of 122°42.0'W. and north of 37°40.0'N. extending eastward through the Golden Gate, and the navigable waters of San Francisco Bay and as far east as the port of Stockton on the San Joaquin River, as far north as the port of Sacramento on the Sacramento River.
<i>San Francisco Traffic</i>	156.600 MHz (Ch. 12)	The navigable waters within a 38 nautical mile radius of Mount Tamalpais (37°55.8'N., 122°34.6'W.) west of 122°42.0'W. and south of 37°40.0'N. and excluding the San Francisco Offshore Precautionary Area.
St. Marys River—003669953 <i>Soo Traffic</i>	156.600 MHz (Ch. 12)	The waters of the St. Marys River between 45°57'N. (De Tour Reef Light) and 46°38.7'N. (Ile Parisienne Light), except the St. Marys Falls Canal and those navigable waters east of a line from 46°04.16'N. and 46°01.57'N. (La Pointe to Sims Point in Potagannissing Bay and Worsley Bay).

COAST PILOT 2 (Continued)

**Notes:**

<sup>1</sup>Maritime Mobile Service Identifier (MMSI) is a unique nine-digit number assigned that identifies ship stations, ship earth stations, coast stations, coast earth stations, and group calls for use by a digital selective calling (DSC) radio, an INMARSAT ship earth station or AIS. AIS requirements are set forth in §§161.21 and 164.46 of this subchapter.

<sup>2</sup>In the event of a communication failure, difficulties or other safety factors, the Center may direct or permit a user to monitor and report on any other designated monitoring frequency or the bridge-to-bridge navigational frequency, 156.650 MHz (Channel 13) or 156.375 MHz (Ch. 67), to the extent that doing so provides a level of safety beyond that provided by other means. The bridge-to-bridge navigational frequency, 156.650 MHz (Ch. 13), is used in certain monitoring areas where the level of reporting does not warrant a designated frequency.

<sup>3</sup>All geographic coordinates (latitude and longitude) are expressed in North American Datum of 1983 (NAD 83).

<sup>4</sup>Some monitoring areas extend beyond navigable waters. Although not required, users are strongly encouraged to maintain a listening watch on the designated monitoring frequency in these areas. Otherwise, they are required to maintain watch as stated in 47 CFR 80.148.

<sup>5</sup>Until rules regarding VTS Lower Mississippi River and VTS Port Arthur are published, vessels are exempted of all VTS and VMRS requirements set forth in 33 CFR part 161, except those set forth in §§161.21 and 161.46 of this subchapter.

<sup>6</sup>A Cooperative Vessel Traffic Service was established by the United States and Canada within adjoining waters. The appropriate Center administers the rules issued by both nations; however, enforces only its own set of rules within its jurisdiction. Note, the bridge-to-bridge navigational frequency, 156.650 MHz (Ch. 13), is not so designated in Canadian waters, therefore users are encouraged and permitted to make passing arrangements on the designated monitoring frequencies.

(FR 7/1/03)

33/03

**COAST PILOT 2            32 Ed 2003            Change No. 16**

**Note:** All geographic coordinates contained in part ...  
(FR 7/1/03) 33/03

Page 105—Paragraphs 1490 to 1497; read:  
(a) Upon point of entry into a VMRS area;  
(b) At designated points as set forth in Subpart C; or  
(c) When directed by the Center.

Page 109—Paragraph 1537, line 3; read:  
more gross tons (except as provided in paragraphs (c) and (d)  
of ...  
(FR 7/1/03) 33/03

**§161.21 Automated reporting.**

(a) Unless otherwise directed, vessels equipped with an Automatic Identification System (AIS) are required to make continuous, all stations, AIS broadcasts, in lieu of voice Position Reports, to those Centers denoted in Table 161.12(c) of this part.

Page 110—Paragraph 1543, lines 1 to 2; read:  
(c) Provisions of §§164.11(a)(2) and (c), 164.30, 164.33, and 164.46 do not apply to warships or other vessels ...  
(FR 7/1/03) 33/03

(b) Should an AIS become non-operational, while or prior to navigating a VMRS area, it should be restored to operating condition as soon as possible, and, until restored a vessel must:

Page 110—Paragraph 1543, line 7; read:  
regulations regarding navigation safety.  
(d) Provisions of §164.46 apply to some self-propelled vessels of less 1600 gross tonnage.  
(FR 7/1/03) 33/03

- (1) Notify the Center;
  - (2) Make voice radio Position Reports at designated reporting points as required by §161.20(b) of this part; and
  - (3) Make any other reports as directed by the Center.
- (FR 7/1/03) 33/03

Page 110—Paragraph 1544, line 1; read:  
(a) Except as provided in §164.46(a)(2) of this part (including §§164.38 and 164.39) does ...  
(FR 7/1/03) 33/03

Page 106—Paragraph 1506, line 3; read:  
VMRS area; and ...  
(FR 7/1/03) 33/03

Page 111—Paragraph 1556, line 3; read:  
.....164.74

Page 106—Paragraphs 1508 to 1517; strike out.  
(FR 7/1/03) 33/03

**International Electrotechnical Commission (IEC)**  
3, rue de Varemb, Geneva, Switzerland.  
IEC 61993-2, Maritime navigation and radiocommunication equipment and systems—Automatic identification systems (AIS)—part 2: Class A shipborne equipment of the universal automatic identification system (AIS)—Operational and performance requirements, methods of test and required test results First edition, 2001-12 .....164.46  
(FR 7/1/03) 33/03

Page 108—Subpart C title through Paragraph 1518, line 1; read:  
**Subpart C—Vessel Traffic Service and Vessel Movement Reporting System Areas and Reporting Points**

**COAST PILOT 2 (Continued)**

Page 111—Paragraph 1557, line 5; read:

1975 .....	164.13
Resolution MSC.74(69), Annex 3, Recommendation on Performance Standards for a Universal Shipborne Automatic Identification System (AIS), adopted May 12, 1998 ...	164.46
SN/Circ.277, Guidelines for the Installation of a Shipborne Automatic Identification System (AIS), dated January 6, 2003 .....	164.46
SOLAS, International Convention for Safety of Life at Sea, 1974, and 1988 Protocol relating thereto, 2000 Amendments, effective January and July 2002, (SOLAS 2000 Amendments).....	164.46
Conference resolution 1, Adoption of amendments to the Annex to the International Convention for the Safety of Life at Sea, 1974, and amendments to Chapter V of SOLAS 1974, adopted December 12, 2002 .....	164.46
(FR 7/1/03)	33/03

Page 111—Paragraph 1560, line 4; read:

Services and Ship-to-Ship Identification, 1992 .....	164.43
ITU-R Recommendation M.1371-1, Technical characteristics for a universal shipborne automatic identification system using time division multiple access in the VHF maritime mobile band, 1998-2001 .....	164.46
(FR 7/1/03)	33/03

Page 116—Paragraph 1730, line 3 to Paragraph 1731, line 2; read:

with a rate of turn indicator.

**§164.43 Automatic Identification System Shipborne Equipment—Prince William Sound.**

(a) Until July 1, 2004, each vessel required to provide automated position reports to a Vessel Traffic Service (VTS) under §165.1704 of this subchapter must do so ...  
(FR 7/1/03) 33/03

Page 117—Paragraph 1749, line 2; read:

operating procedures are set forth in Part 161 of this chapter.

**§164.46 Automatic Identification System (AIS).**

(a) The following vessels must have an installed, operational AIS that complies with the IMO Resolution MSC.74(69), ITU-R Recommendation M.1371-1, and IEC 61993-2, and that is installed using IMO SN/Circ.277 (Incorporated by reference, see §164.03) as of the date specified. “Length” refers to “registered length” as defined in 46 CFR, part 69.

(1) Self-propelled vessels of 65 feet or more in length engaged in commercial service and on an international voyage, not later than December 31, 2004.

(2) Notwithstanding paragraph (a)(1) of this section, the following vessels subject to the International Convention for Safety at Life at Sea, 1974, (SOLAS) as amended, that are on an international voyage must also comply with SOLAS, chapter V, as amended by SOLAS 2000 Amendments and Conference resolution 1 (Incorporated by reference, see §164.03):

(i) Passenger vessels, of 150 gross tonnage or more, not later than July 1, 2003;

(ii) Tankers, regardless of tonnage, not later than the first safety survey for safety equipment on or after July 1, 2003;

(iii) Vessels, other than passenger vessels or tankers, of 50,000 gross tonnage or more, not later than July 1, 2004; and

(iv) Vessels, other than passenger vessels or tankers, of 300 gross tonnage or more but less than 50,000 gross tonnage, not later than the first safety survey for safety equipment on or after July 1, 2004, but no later than December 31, 2004.

(b) Notwithstanding paragraphs (a)(1) and (a)(2) of this section, the following vessels, transiting an area listed in table 161.12(c) of §161.12 of this part.

(1) Each self-propelled vessel of 65 feet or more in length, engaged in commercial service;

(2) Each towing vessel of 26 feet or more in length and more than 600 horsepower;

(3) Each vessel of 100 gross tons or more carrying one or more passengers for hire; and

(4) Each passenger vessel certificated to carry 50 or more passengers for hire.

(c) The vessels listed in paragraph (b) of this section must comply according to the following schedule:

(1) For VTS St. Marys River, not later than December 31, 2003;

(2) For VTS Berwick Bay, VMRS Los Angeles/Long Beach, VTS Lower Mississippi River, VTS Port Arthur and VTS Prince William Sound, not later than July 1, 2004; and

(3) For VTS Houston-Galveston, VTS New York, VTS Puget Sound, and VTS San Francisco, not later than December 31, 2004.

(d) The requirements for Vessel Bridge-to-Bridge radio-telephones in §§26.04(a) and (c), 26.05, 26.06 and 26.07 of this chapter, also apply to AIS. The term “effective operating condition” used in §26.06 includes accurate input and upkeep of all AIS data fields, including estimated time of arrival, destination, and number of people on board.

(e) The use of a portable AIS is permissible, only to the extent that electromagnetic interference does not affect the proper function of existing navigation and communication equipment on board, and such that only one AIS unit may be in operation at any one time.

(f) The AIS Pilot Plug, on each vessel over 1,600 gross tons, on international voyage, shall be available for pilot use, easily accessible from the primary conning position of the vessel, and near an AC power receptacle.  
(FR 7/1/03) 33/03

**COAST PILOT 8                      25 Ed 2003                      Change No. 1  
LAST NM 32/03**

Page 123—Paragraph 82, line 9 to Paragraph 83; read:  
through the many deep entrance channels.

**Offshore Vessel Traffic Management Recommendations**

Based on the **West Coast Offshore Vessel Traffic Risk Management Project**, which was co-sponsored by the

## COAST PILOT 8 (Continued)

**Pacific States/British Columbia Oil Spill Task Force and U.S. Coast Guard Pacific Area**, it is recommended that, where no other traffic management areas exist such as Traffic Separation Schemes, Vessel Traffic Services, or recommended routes, vessels 300 gross tons or larger transiting along the coast anywhere between Cook Inlet and San Diego should voluntarily stay a minimum distance of 25 nautical miles offshore. It is also recommended that tank ships laden with persistent petroleum products and transiting along the coast between Cook Inlet and San Diego should voluntarily stay a minimum distance of 50 nautical miles offshore. Vessels transiting short distances between adjacent ports should seek routing guidance as needed from the local Captain of the Port or VTS authority for that area. This recommendation is intended to reduce the potential for vessel groundings and resulting oil spills in the event of a vessel casualty.

(CL 283/03) 33/03

Page 129—Paragraph 6, line 2; read:  
with a depth of 25 fathoms (45.7m) in 53°19'N., ...

(H 10996; BP 179342) 33/03

Page 182—Paragraph 360, line 1; read:  
**Mariposa Rock**, with 1.6 fathoms (3m) over it ...

(H 10959; BPs 176632-34) 33/03

Page 193—Paragraph 515, line 7; read:  
fathoms (42m), mud bottom.

**Dangers**

The approach to Wrangell Harbor is clear of dangers. A shoal of 2.6 fathoms (4.7m) is about 55 yards (50.3m) N of the breakwater. One submerged dolphin is along the eastern side of the entrance channel, approximately 200 yards (182.9m) ENE of the breakwater. A small pier with one exposed dolphin just off the N end is along the W side of the entrance channel. Submerged piles are about 114 yards (104.2m) off the SE end of the outer mooring basin, about 33 yards (30.2m) NW of a floating dock.

(CL 480/02) 33/03

Page 262—Paragraph 79, line 5; read:  
water, shown from a spindle with a red and white ...

(29/97 CG17; LL/02) 33/03

Page 346—Paragraph 11, lines 1 to 2; read:  
A channel is between these two rocks, and between Sea Rock and the cape, but shoaling exists in both passages and neither is recommended.

(CL 912/03) 33/03

Page 386—Paragraph 47, line 4 to Paragraph 50; read:  
sale by U.S. Army Engineer District Mobile, Mobile, AL 36602, Attn: Map Sales, LM-SR; telephone, 251-441-5631.

Flood Control and Navigation Maps of the Mississippi River, Cairo, IL to the Gulf of Mexico: Published by Mississippi River Commission and for sale by U.S. Army Engineer District Vicksburg, 4155 Clay Street, Vicksburg, MS 39183-3435, Attn: Map Sales; telephone: 601-631-5042.

Upper Mississippi River Navigation Charts (Mississippi River, Cairo, IL to Minneapolis, MN): Published and for sale by U.S. Army Engineer District Rock Island, Clock Tower Bldg., P.O. Box 2004, Rock Island, IL 61204-2004; telephone, 309-794-5338.

Charts of the Illinois Waterway, from Mississippi River at Grafton, IL to Lake Michigan at Chicago and Calumet Harbors: Published and for sale by U.S. Army Engineer District Rock Island, Clock Tower Bldg., P.O. Box 2004, Rock Island, IL 61204-2004; telephone 309-794-5338.

(CE/03) 33/03

**COAST PILOT 8                      25 Ed 2003                      Change No. 2**

Page 64—Paragraphs 407 to 408; read:

(d) [Suspended]  
(e) [Suspended]  
(FR 5/22/03) 33/03

Page 65—Paragraph 458, lines 8 to 12; read:  
of Canada by fax at 315-764-3235 or at 315-764-3200.

(FR 5/22/03) 33/03

Page 65—Paragraph 459, line 4 to Paragraph 464; read:  
Captain of the Port (COTP).

(d) [Suspended]  
(FR 5/22/03) 33/03

Page 67—Paragraphs 471 to 473; read:

(c) [Suspended]  
(FR 5/22/03) 33/03

Page 67—Table, item 8; read:

(8) [Suspended]  
(FR 5/22/03) 33/03

**COAST PILOT 8                      25 Ed 2003                      Change No. 3**

Page 241—Paragraph 112, line 1; read:  
**Charts 17379, 17386, 17387**

**Ruins Point** (56°04.0'N., 133°42.0'W.), 8 miles ...  
(CL 820/98; NOS 17379) 33/03

Page 297—Paragraph 73, lines 7 to 8; read:  
S or SW. A rock, covered 2.5 fathoms, is about 0.3 mile WSW of the point in about 56°33'38"N., 134°19'45"W. A ...  
(NOS 17370) 33/03

Page 297—Paragraph 73, line 15; read:  
N of the reef in 56°34'20"N., 134°19'46"W.  
(NOS 17370) 33/03

Page 298—Paragraph 79; read:

A rock which bares 1 foot is on the S side of the bay about 0.5 mile NE of the cannery wharf in about 56°36'16"N.,

**COAST PILOT 8 (Continued)**

- 134°14'06"W.  
(NOS 17370) 33/03
- Page 298—Paragraph 81, lines 7 to 9; read:  
56°37'58"N., 134°11'07"W.  
(NOS 17370; H 10050) 33/03
- Page 298—Paragraph 84, lines 3 to 8; read:  
marked by kelp. A rock, covered 3.5 fathoms in 56°37'40"N.,  
134°20'13"W., is about 1.1 miles SW of the rock awash.  
Another danger spot, covered 1.8 fathoms, is about 220  
yards SW of the 3.5-fathom covered rock in about  
56°37'35"N., 134°20'24"W. Mariners are advised to exercise  
caution in ...  
(NOS 17370; H 10050) 33/03
- Page 298—Paragraph 86, lines 2 to 6; read:  
depths of 3 to 15 fathoms, and is a secure anchorage. A rock,  
covered 1.8 fathoms, is 0.45 mile ENE from the island in the  
middle of the bay in about 56°39'38"N., 134°15'02"W. Other  
rocks extend about 250 yards E of the 1.8 fathom rock and  
caution is advised in this area. Two large ...  
(NOS 17370) 33/03
- COAST PILOT 8            25 Ed 2003            Change No. 4**
- Page 385—Paragraph 11, line 1; read:  
**Seattle:** Director, Marine Operations Center (Pacific),  
National ...  
(CL 1200/03) 33/03
- COAST PILOT 9            21 Ed 2003            Change No. 3**  
**LAST NM 32/03**
- Page 5—Paragraph 50, line 2; read:  
America including the Hawai'ian Islands;  
(CL 2084/02) 33/03
- Page 20—Paragraph 385, line 6; read:  
Kauai, Hawai'i (21°59'26"N., 159°46'00"W.) on frequen-  
cies ...  
(CL 2084/02) 33/03
- Page 21—Paragraph 400, line 6; read:  
Hawai'ian Datum, and others. Through the use of satellites  
...  
(CL 2084/02) 33/03
- Page 21—Paragraph 401, line 5; read:  
charts of Hawai'i, and other Pacific Ocean islands, ...  
(CL 2084/02) 33/03
- Page 34—Paragraph 554, line 3; read:  
in Colorado, Hawai'i, Kwajalein, Diego Garcia, and Ascen-  
sion ...  
(CL 2084/02) 33/03
- Page 34—Paragraph 558, line 4; read:  
Rico, most of Alaska, and Hawai'i. The system provides ...  
(CL 2084/02) 33/03
- Page 36—Paragraph 598, line 5; read:  
Lighthouse and caused damages of \$25 million in the  
Hawai'ian ...  
(CL 2084/02) 33/03
- Page 36—Paragraph 601, line 5; read:  
The Pacific Tsunami Warning Center, Oahu, Hawai'i, of ...  
(CL 2084/02) 33/03
- Page 499—Paragraph 21, line 2; read:  
Oregon, Washington, and Hawai'i.  
(CL 2084/02) 33/03
- Page 502—Paragraph 116, line 1; read:  
**Region IX** (California, Hawai'i, Guam): 215 ...  
(CL 2084/02) 33/03
- Page 503—Paragraph 160, line 3; read:  
Rico; Southwest Alaska; Hawai'i; and 300-400 NM off ...  
(CL 2084/02) 33/03
- Page 505—Paragraph 268, line 1; read:  
**Pacific Region** (California, Hawai'i, Alaska, Washington,  
...  
(CL 2084/02) 33/03
- Page 505—Paragraph 274; read:  
Honolulu, Hawai'i: 300 Ala Moana Boulevard, 96850.  
(CL 2084/02; CP7/02) 33/03
- COAST PILOT 9            21 Ed 2003            Change No. 4**
- Page 113—Paragraphs 254 to 255; read:  
71°20'N., 156°55'W.
- Offshore Vessel Traffic Management Recommendations**  
Based on the **West Coast Offshore Vessel Traffic Risk  
Management Project**, which was co-sponsored by the  
**Pacific States/British Columbia Oil Spill Task Force** and  
**U.S. Coast Guard Pacific Area**, it is recommended that,  
where no other traffic management areas exist such as Traffic  
Separation Schemes, Vessel Traffic Services, or recom-  
mended routes, vessels 300 gross tons or larger transiting  
along the coast anywhere between Cook Inlet and San Diego  
should voluntarily stay a minimum distance of 25 nautical  
miles offshore. It is also recommended that tank ships laden  
with persistent petroleum products and transiting along the  
coast between Cook Inlet and San Diego should voluntarily  
stay a minimum distance of 50 nautical miles offshore. Ves-  
sels transiting short distances between adjacent ports should  
seek routing guidance as needed from the local Captain of  
the Port or VTS authority for that area. This recommenda-  
tion is intended to reduce the potential for vessel groundings

**COAST PILOT 9 (Continued)**

and resulting oil spills in the event of a vessel casualty.

(CL 283/03) 33/03

Page 174—Paragraph 671, line 5; read:

from Latouche. A rock covered 3.63 fathoms is about 1.6 miles W of Danger Island at 59°55'39"N., 148°08'26"W. The recommended route, however, is ...

(CL 1111/03; DD 4217) 33/03

Page 177—Paragraph 710, line 11; read:

miles SW of Flemming Island, marked with 4 fathoms, ...

(CL 717/03) 33/03

Page 177—Paragraph 710, lines 14 to 15; read:

farther S on Bainbridge Island. Take care to avoid the 4-fathom shoal 400 yards off Bainbridge Island, 1.2 miles NE of Amerk Point and the 2.6-fathom shoal 625 yards off Bainbridge Island, 1.0 mile NE of ...

(CL 717/03) 33/03

Page 259—Paragraph 339, line 8; read:

and 1.1 miles long.

A **rocket launch facility** is located at Narrow Cape. **Safety zones** are established by the USCG COTP for the safety of vessels operating near Narrow Cape during launch activity. These safety zones are closed to vessel traffic during the hours of anticipated launches and are announced in the Local Notice to Mariners and Broadcast Notice to Mariners. Inquiries should be directed to USCG MSD Kodiak, AK (907) 486-5918 or MSD Anchorage, AK (907) 271-6700 for specific details.

(CL 774/03) 33/03

Page 294—Paragraph 39, line 12; read:

good. The diurnal range of tide is about 13.3 feet, and the ...

(TT/01) 33/03

Page 323—Paragraph 462, lines 4 to 9; read:

light. In August 2002, the controlling depth in the entrance and harbor basin channels was 18 feet except for lesser depths to 5.6 feet near the head of the channel along the SE side. In August 2002, except for lesser depths along the sides, depths in the basin were generally 13 to 18 feet. The basin provides moorage for 230 craft.

(BP 179663) 33/03

**COAST PILOT 9            21 Ed 2003            Change No. 5**

Page 499—Paragraph 11, line 1; read:

**Seattle:** Director, Marine Operations Center (Pacific), National ...

(CL 1200/03) 33/03

**SECTION II**

**CORRECTIONS TO C. G. LIGHT LIST, VOLUME I LIGHT LIST, 2003**

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>*Add Heading: *Logan Airport Security Zone</b>							
*10909	<i>Logan Airport Security Zone Lighted Buoy 24</i>	42 20 42 N 71 00 30 W	FI Y 4s		2	White and orange.	Marked RESTRICTED AREA. Private aid.  33/03
<b>*Add Heading: *Boston Main Channel</b>							
10910	- <i>Lighted Buoy 10</i>		FI R 6s		4	Red.	Replaced by nun when endangered by ice.  33/03
<b>*Add Heading: *Logan Airport Security Zone</b>							
*10912	Logan Airport Security Zone Buoy 25	42 20 47 N 71 00 38 W				White and orange.	Marked RESTRICTED AREA. Private aid.  33/03
*10919	Logan Airport Security Zone Buoy 26	42 20 59 N 71 00 59 W				White and orange.	Marked RESTRICTED AREA. Private aid.  33/03
<b>*Add Heading: *Boston Main Channel</b>							
10920	- <i>Lighted Buoy 12</i>	42 21 00 N 71 01 06 W	FI R 2.5s		4	Red.	Replaced by nun when endangered by ice.  33/03
<b>*Add Heading: *Logan Airport Security Zone</b>							
*10921	Logan Airport Security Zone Buoy 27	42 21 05 N 71 01 11 W				White and orange.	Marked RESTRICTED AREA. Private aid.  33/03
*10922	Logan Airport Security Zone Buoy 28	42 21 11 N 71 01 22 W				White and orange.	Marked RESTRICTED AREA. Private aid.  33/03
10923	Logan Airport Security Zone Buoy 29	42 21 18 N 71 01 33 W	FI Y 4s		2	White and orange.	Marked RESTRICTED AREA. Private aid.  * * * * * 33/03
<b>*Change Heading to Read: *Boston Main Channel</b>							
10925	- <i>Lighted Buoy 13</i>	42 21 12 N 71 02 06 W	FI G 4s		4	Green.	Replaced by can when endangered by ice.  33/03
<b>*Add Heading: *Logan Airport Security Zone</b>							
*11033	Logan Airport Security Zone Buoy 16	42 21 38 N 70 59 07 W				White and orange.	Marked RESTRICTED AREA. Private aid.  33/03

**Note:** Asterisks (\*) indicate that column(s) in which a correction has been made or new information added.  
Denotes a new entry when preceding the station number.

## SECTION II

### CORRECTIONS TO C. G. LIGHT LIST, VOLUME I LIGHT LIST, 2003

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
*11034	Logan Airport Security Zone Buoy 15	42 21 45 N 70 59 14 W				White and orange.	Marked RESTRICTED AREA. Private aid.
							33/03
	*Add Heading: *Logan Airport Security Zone						
*11056	Logan Airport Security Zone Buoy 17	42 22 26 N 70 59 02 W	FI Y 4s		2	White and orange.	Marked RESTRICTED AREA. Private aid.
							33/03
	*Add Heading: *Winthrop Harbor Approach						
11060	- Buoy 7					Green can.	
							33/03
	*Add Heading: *Logan Airport Security Zone						
*11094	Logan Airport Security Zone Buoy 14	42 21 51 N 70 59 28 W				White and orange.	Marked RESTRICTED AREA. Private aid.
							33/03
	*Add Heading: *Chelsea Point Channel						
11095	- Buoy 4					Red nun.	
							33/03
	*Add Heading: *Logan Airport Security Zone						
*11099	Logan Airport Security Zone Buoy 13	42 21 57 N 70 59 41 W				White and orange.	Marked RESTRICTED AREA. Private aid.
							33/03
	*Add Heading: *Chelsea Point Channel						
11100	- Buoy 5					Green can.	
							33/03
	*Add Heading: *Logan Airport Security Zone						
*11106	Logan Airport Security Zone Buoy 12	42 22 05 N 70 59 52 W				White and orange.	Marked RESTRICTED AREA. Private aid.
							33/03
*11109	Logan Airport Security Zone Buoy 11	42 22 11 N 70 59 57 W				White and orange.	Marked RESTRICTED AREA. Private aid.
							33/03
	*Add Heading: *Chelsea Point Channel						
11110	- Buoy 7					Green can.	
							33/03

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**SECTION II**

**CORRECTIONS TO C. G. LIGHT LIST, VOLUME I LIGHT LIST, 2003**

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>*Add Heading: *Logan Airport Security Zone</b>							
*11116	Logan Airport Security Zone Buoy 10	42 22 19 N 70 59 58 W				White and orange.	Marked RESTRICTED AREA. Private aid.  33/03
*11119	Logan Airport Security Zone Buoy 9	42 22 29 N 70 59 53 W				White and orange.	Marked RESTRICTED AREA. Private aid.  33/03
<b>*Add Heading: *Chelsea Point Channel</b>							
11120	- Buoy 9					Green can.	  33/03
<b>*Add Heading: *Logan Airport Security Zone</b>							
*11125.1	<i>Logan Airport Security Zone Lighted Buoy 8</i>	42 22 39 N 70 59 48 W	FI Y 4s		2	White and orange.	Marked RESTRICTED AREA. Private aid.  33/03
*11126	Logan Airport Security Zone Buoy 1	42 22 43 N 71 00 43 W				White and orange.	Marked RESTRICTED AREA. Private aid.  33/03
*11126.1	Logan Airport Security Zone Buoy 2	42 22 27 N 71 00 39 W				White and orange.	Marked RESTRICTED AREA. Private aid.  33/03
*11127	Logan Airport Security Zone Buoy 3	42 22 34 N 71 00 35 W				White and orange.	Marked RESTRICTED AREA. Private aid.  33/03
*11127.1	Logan Airport Security Zone Buoy 4	42 22 42 N 71 00 31 W				White and orange.	Marked RESTRICTED AREA. Private aid.  33/03
*11128.1	Logan Airport Security Zone Buoy 6	42 22 49 N 71 00 15 W				White and orange.	Marked RESTRICTED AREA. Private aid.  33/03
*11129	Logan Airport Security Zone Buoy 7	42 22 43 N 71 00 02 W				White and orange.	Marked RESTRICTED AREA. Private aid.  33/03
<b>*Add Heading: *Logan Airport Security Zone</b>							
*11146	Logan Airport Security Zone Buoy 18	42 21 19 N 70 59 11 W				White and orange.	Marked RESTRICTED AREA. Private aid.  33/03
*11147	Logan Airport Security Zone Buoy 20	42 21 01 N 70 59 44 W				White and orange.	Marked RESTRICTED AREA. Private aid.  33/03

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## SECTION II

### CORRECTIONS TO C. G. LIGHT LIST, VOLUME I LIGHT LIST, 2003

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
*11148	Logan Airport Security Zone Buoy 21	42 20 58 N 70 59 55 W				White and orange.	Marked RESTRICTED AREA. Private aid.  33/03
*11149	Logan Airport Security Zone Buoy 22	42 20 52 N 71 00 04 W				White and orange.	Marked RESTRICTED AREA. Private aid.  33/03
*11149.1	Logan Airport Security Zone Buoy 23	42 20 45 N 71 00 18 W				White and orange.	Marked RESTRICTED AREA. Private aid.  33/03

### CORRECTIONS TO C. G. LIGHT LIST, VOLUME II LIGHT LIST, 2003

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>*Change Note to Read:</b>							
<b>Rehoboth Bay</b>							
<i>*Buoys maintained from May 1 to Nov. 15. Position of buoys frequently shifted with changing conditions.</i>							
2095	- Channel Buoy 1					Green can.	33/03
2117	- Buoy 10					Red nun.	33/03
	*					*	33/03
<b>*Add Note:</b>							
<b>Rehoboth Bay</b>							
<i>*Buoys maintained from May 1 to Nov. 15. Position of buoys frequently shifted with changing conditions.</i>							
2120	- Channel Buoy 11					Green can.	33/03
2130	- LIGHT 13		FI G 4s	15	4	SG on pile.	33/03
	*	*	*	*	*		33/03
2135	- Buoy 15					Green can.	33/03
	*					*	33/03
2137	- Channel Buoy 15A						<i>Remove from list.</i> * 33/03
2145	- Daybeacon 17B					SG on pile.	33/03
	*	*				*	33/03
2150	- Daybeacon 20						<i>Remove from list.</i> * 33/03

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## SECTION II

CORRECTIONS TO C. G. LIGHT LIST, VOLUME II LIGHT LIST, 2003							
(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
2156	- Buoy 21A					Green can.	
	*					*	33/03
*2171	- Buoy 26					Red nun.	33/03
8015	- <i>Lighted Buoy 3</i>		<b>FIG 4s</b>		4	Green.	Replaced by LIB of lower intensity from Dec. 1 to Mar. 15.
	*						33/03
*11357	- Daybeacon 3					SG on pile.	Private aid.
							33/03
12875	- Daybeacon 7	37 03 48 N 76 16 54 W				SG on pile.	Private aid.
	*		*	*			33/03
<b>Wicomico River</b>							
17250	- Junction Buoy WR	38 14 01 N 76 49 13 W				Red and green bands; nun.	
		*					33/03
19570	- LIGHT 4		<b>FI R 2.5s</b>	15	4	TR on multi-pile structure.	
						*	33/03
19625	- LIGHT 11		<b>FIG 2.5s</b>	15	4	SG on pile.	
						*	33/03
20220	Cool Spring Cove Daybeacon 1					SG on pile.	Private aid.
	*						33/03
20225	Cool Spring Cove Daybeacon 2					TR on pile.	Private aid.
	*						33/03
29690	- Buoy 7						<i>Remove from list.</i>
							*
							33/03
29695	- Buoy 7A						<i>Remove from list.</i>
							*
							33/03
29845.1	Stones Bay Warning Daybeacon A						<i>Remove from list.</i>
							*
							33/03

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## SECTION II

### CORRECTIONS TO C. G. LIGHT LIST, VOLUME II LIGHT LIST, 2003

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>Far Creek Channel</b>							
32105	- LIGHT 1FC 20 feet outside channel limit.	35 30 27 N 75 56 58 W	FI G 2.5s	15	4	SG on multi-pile structure.	
		*					33/03

### CORRECTIONS TO C. G. LIGHT LIST, VOLUME III LIGHT LIST, 2003

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
*1007.8	<i>Looe Key Telemetering Lighted Buoy LR</i>	24 32 34 N 81 24 08 W	FI (4) Y 20s			Yellow can.	Private aid.
							33/03
1235	<b>Capri Pass Approach Light</b>	25 58 35 N 81 44 05 W	FI W 10s	90	17	Building.	Light obscured from 280° to 030°.
		*					33/03
1875	- RANGE A FRONT LIGHT	33 11 34 N 79 10 05 W	FI W 2.5s (Day) FI W 2.5s (Night)	15 13			Visible 10° each side of range line (Day). Visible 10° each side of range line (Night).
			*	*		*	33/03
1875.5	- RANGE A FRONT PASSING LIGHT	33 11 34 N 79 10 05 W	FI W 2.5s	17	5	On same structure as Winyah Bay Range A Front Light.	
			*	*			33/03
1880	- RANGE A REAR LIGHT 849 yards, 270° from front light.		Iso W 6s (Night) Iso W 6s (Day)	43 40			Visible 10° each side of range line (Day). Visible 10° each side of range line (Night).
			*			*	33/03
*7079	Old Town Reach Obstruction Daybeacon 1	30 41 08 N 81 27 31 W				NW on pile worded DANGER SUBMERGED PIPELINE.	Private aid.
							33/03
*12504	Knights Key Bank Shoal Daybeacon	24 42 29 N 81 07 48 W				NW on pile worded DANGER SHOAL.	Private aid.
							33/03
<b>*Add Heading: *Florida Bay</b>							
*12508	Pigeon Key Shoal Daybeacon NE	24 42 47 N 81 09 46 W				NW on pile worded DANGER SHOAL.	Private aid.
							33/03
*12509	Pigeon Key Shoal Daybeacon NW	24 42 25 N 81 09 46 W				NW on pile worded DANGER SHOAL.	Private aid.
							33/03
*12511	Red Bay Shoal Daybeacon A	24 44 25 N 81 09 29 W				NW on pile worded DANGER SHOAL.	Private aid.
							33/03

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**SECTION II**

**CORRECTIONS TO C. G. LIGHT LIST, VOLUME III LIGHT LIST, 2003**

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
*12512	Red Bay Shoal Daybeacon B	24 44 57 N 81 08 14 W				NW on pile worded DANGER SHOAL.	Private aid.  33/03
*12513	Red Bay Shoal Daybeacon C	24 44 19 N 81 07 44 W				NW on pile worded DANGER SHOAL.	Private aid.  33/03
*12514	Red Bay Shoal Daybeacon D	24 45 26 N 81 09 03 W				NW on pile worded DANGER SHOAL.	Private aid.  33/03
*12750.1	- Daybeacon 14					TR on pile.	Private aid.  33/03
	<b>*Add Heading: *Rattlesnake Channel</b>						
*23812	- Daybeacon 1					TR on pile.	Private aid.  33/03
*23813	- LIGHT 2	27 53 24 N 82 32 10 W	<b>F I R 4s</b>	10		TR on dolphin.	Private aid.  33/03
*23814	- Daybeacon A					JG on pile.	Private aid.  33/03
	<b>*Add Headings: *Tampa Bay *Weedon Island Channel</b>						
23815	- Lighted Buoy 3		<b>F I G 4s</b>			Green.	Private aid.  33/03
30687	- Canal West Obstruction Buoy	29 49 08 N 83 35 36 W				Orange and white bands with orange diamond; can.	Private aid.  33/03
		*					
*31927	Ponce Yacht and Fishing Club Special Purpose Buoy A	17 55 20 N 66 33 53 W				Yellow can.	Private aid.  33/03
*37959	Old Town Reach Obstruction Daybeacon 1	30 41 08 N 81 27 31 W				NW on pile worded DANGER SUBMERGED PIPELINE.	Private aid.  33/03
*50535.3	- Daybeacon 5					SG on pile.	Private aid.  33/03
*50535.4	- Daybeacon 6					TR on pile.	Private aid.  33/03

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## SECTION II

### CORRECTIONS TO C. G. LIGHT LIST, VOLUME IV LIGHT LIST, 2003

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
1113.5	<i>Rigelake-102-1 Lighted Buoy</i> Marks subsea installation.						<i>Remove from list.</i>
							* 33/03
<b>APALACHICOLA BAY TO LAKE WIMICO (Chart 11402)</b>							
<b>West Pass</b>							
2850	- LIGHT	29 37 57 N 85 05 50 W	FI W 2.5s	17	5	NB on dolphin.	
							* 33/03
3910	- ENTRANCE LIGHT 16	30 24 27 N 86 31 09 W	FI R 2.5s	17	4	TR on pile.	Ra ref.
							* 33/03
*8207	- Daybeacon 33					SG on pile.	Ra ref.
							33/03
<b>Amite River</b>							
10455	- LIGHT 1	30 17 50 N 90 33 29 W	FI G 4s	25	4	SG on skeleton tower.	
							* 33/03
<b>MISSISSIPPI RIVER DELTA (Chart 11361)</b>							
<b>Baptiste Collette Bayou</b>							
12450	- Daybeacon 21					SG on pile.	Ra ref.
							* 33/03
13413	Cedar Grove Anchorage Lower Daybeacon 69.9	29 46 42 N 90 01 32 W				NY on pile.	Ra ref.
							* 33/03
13630 33185	<b>Governor Nicholls Harbor Traffic Control Light 94</b> LDB mile 94.3.	29 57 38 N 90 03 23 W	FI G 5s or FI R 5s		16	On skeleton tower.	Operated by Coast Guard Marine Safety Office New Orleans during periods of high water. Controls one way traffic around Algiers Point.
							* 33/03
13715	<b>Westwego Traffic Light</b> RDB mile 101.4.	29 54 52 N 90 08 23 W	Q G or Q R		10	On skeleton tower.	Operated by Coast Guard Marine Safety Office New Orleans. Indicates to down bound traffic whether Gretna Harbor Traffic Control Light is red or green.
							* 33/03
<b>New Orleans to Baton Rouge</b>							
13815	WAGGAMAN LIGHT 109 RDB Mile 109.1.	29 55 18 N 90 12 47 W	Iso G 6s		8	SG on skeleton tower.	
							* 33/03

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**SECTION II**

CORRECTIONS TO C. G. LIGHT LIST, VOLUME IV LIGHT LIST, 2003							
(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
14363	Sunshine Anchorage Upper Daybeacon 167.0	30 05 42 N 90 54 28 W				NY on pile.	Ra ref.
		*					33/03
20630	- EAST JETTY LIGHT 42	29 44 42 N 93 20 23 W	Q R	30	4	TR on square tower on piles.	
		*					33/03
22605	- ENTRANCE CHANNEL RANGE A FRONT LIGHT	29 21 18 N 94 42 57 W	FI W 2.5s	20		On skeleton tower.	For upbound traffic. Lighted throughout 24 hours.
		*					33/03
22630	- Entrance Channel Lighted Gong Buoy 5 100 feet outside channel limit.		FI G 2.5s		4	TR on skeleton tower on block.	
						*	33/03
25850	- Daybeacon 15	28 40 43 N 95 58 27 W				SG on pile.	Ra ref.
		*					33/03
33185 13630	Governor Nicholls Harbor Traffic Control Light 94 LDB mile 94.3.	29 57 38 N 90 03 23 W	FI G 5s or FI R 5s		16	On skeleton tower.	Operated By Coast Guard Marine Safety Office New Orleans during periods of high water. Controls one way traffic around Algiers Point.
		*					33/03
36230	- LIGHT 22		FI R 4s	17	3	TR on pile.	Ra ref.
						*	33/03
36545	- LIGHT 25 90 feet outside channel limit.		FI G 4s	17	4	SG-SY on pile.	Ra ref.
						*	33/03
36865	COPANO BAY APPROACH LIGHT 1	28 03 36 N 97 00 49 W	FI G 2.5s	17	3	SG on pile.	Ra ref.
		*					33/03
36875	COPANO BAY APPROACH LIGHT 3	28 06 27 N 97 00 40 W	FI G 4s	17	4	SG on dolphin.	
		*					33/03
<b>Land Cut</b>							
39215	- LIGHT 1		FI G 4s	17	4	SG-SY on pile.	Ra ref.
						*	33/03
39310	- LIGHT 20	26 50 12 N 97 28 05 W	FI R 6s	17	4	TR-TY on pile.	Ra ref.
		*			*		33/03

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**CORRECTIONS TO C. G. LIGHT LIST, VOLUME IV LIGHT LIST, 2003**

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
39315	- LIGHT 21	26 49 27 N 97 28 07 W	FIG 4s	17	4	SG-SY on pile.	
					*		33/03
39845	- LIGHT 180		FIR 4s	17	3	TR-TY on pile.	Ra ref.
					*		33/03
40170	- LIGHT 17	26 19 40 N 97 18 35 W	FIG 4s	17	4	SG-SY on pile.	
		*			*		33/03
40190	- LIGHT 25	26 18 46 N 97 18 10 W	FIG 4s	17	4	SG-I on pile.	
		*			*		33/03
40395	- LIGHT 107		FIG 4s	17	4	SG-SY on dolphin.	Ra ref.
					*		33/03
40455	- LIGHT 131		FIG 4s	17	4	SG-SY on pile.	Ra ref.
					*		33/03
	<b>*Add Heading: *Queen Isabella Causeway</b>						
*40552	QUEEN ISABELLA CAUSEWAY SOUTHEAST DANGER LIGHT A	26 04 59 N 97 11 47 W	FI W 2.5s	12		On pile cluster.	Private aid.
							33/03
*40552.01	QUEEN ISABELLA CAUSEWAY SOUTHEAST DANGER LIGHT B		FI W 2.5s	12		On pile cluster.	Private aid.
							33/03
*40552.02	QUEEN ISABELLA CAUSEWAY SOUTHEAST DANGER LIGHT C		FI W 2.5s	12		On pile cluster.	Private aid.
							33/03
*40552.03	QUEEN ISABELLA CAUSEWAY SOUTHEAST DANGER LIGHT D	26 04 57 N 97 11 50 W	FI W 2.5s	12		On fender system.	Private aid.
							33/03
*40552.1	QUEEN ISABELLA CAUSEWAY SOUTHWEST DANGER LIGHT A	26 04 54 N 97 11 57 W	FI W 2.5s	12		On pile cluster.	Private aid.
							33/03
*40552.11	QUEEN ISABELLA CAUSEWAY SOUTHWEST DANGER LIGHT B		FI W 2.5s	12		On pile cluster.	Private aid.
							33/03

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CORRECTIONS TO C. G. LIGHT LIST, VOLUME IV LIGHT LIST, 2003							
(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
*40552.12	QUEEN ISABELLA CAUSEWAY SOUTHWEST DANGER LIGHT C		FI W 2.5s	9		On fender system.	Private aid.  33/03
*40552.13	QUEEN ISABELLA CAUSEWAY SOUTHWEST DANGER LIGHT D	26 04 55 N 97 11 58 W	FI W 2.5s	9		On fender system.	Private aid.  33/03
*40552.14	QUEEN ISABELLA CAUSEWAY SOUTHWEST DANGER LIGHT E		FI W 2.5s	12		On pile cluster.	Private aid.  33/03
*40552.15	QUEEN ISABELLA CAUSEWAY SOUTHWEST DANGER LIGHT F	26 04 55 N 97 12 00 W	FI W 2.5s	9		On fender system.	Private aid.  33/03
*40552.16	QUEEN ISABELLA CAUSEWAY SOUTHWEST DANGER LIGHT G		FI W 2.5s	12		On pile cluster.	Private aid.  33/03
*40552.17	QUEEN ISABELLA CAUSEWAY SOUTHWEST DANGER LIGHT H		FI W 2.5s	9		On fender system.	Private aid.  33/03
*40552.18	QUEEN ISABELLA CAUSEWAY SOUTHWEST DANGER LIGHT I		FI W 2.5s	9		On fender system.	Private aid.  33/03
*40552.19	QUEEN ISABELLA CAUSEWAY SOUTHWEST DANGER LIGHT J	26 04 54 N 97 12 02 W	FI W 2.5s	9		On fender system.	Private aid.  33/03

CORRECTIONS TO C. G. LIGHT LIST, VOLUME VI LIGHT LIST, 2003							
(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
6433	POINT EDITH CROSSING RANGE FRONT LIGHT	38 03 55 N 122 03 32 W	Q W	18		KRW on pile.	Visible all around; higher intensity on rangeline.  33/03
		*					
6570	- LIGHT 26	38 03 03 N 121 57 00 W	FI R 4s	16	4	TR on pile structure.	  33/03
		*					
6580	- LIGHT 28	38 02 33 N 121 55 07 W	FI R 2.5s	20	4	TR on pile structure.	Higher intensity beam up and down channel.  33/03
		*					

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## SECTION II

### CORRECTIONS TO C. G. LIGHT LIST, VOLUME VI LIGHT LIST, 2003

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
6625	- LIGHT 5	38 01 57 N 121 52 04 W	FI G 2.5s	20	4	SG on pile.	
		*					33/03
17172	BLAIR WATERWAY RANGE FRONT LIGHT	47 15 12 N 122 22 24 W	Q R	111		KRB on single steel pile.	Private aid.
		*		*			33/03
17173	BLAIR WATERWAY RANGE REAR LIGHT 300 yards, 134° true from front light.	47 15 05 N 122 22 12 W	ISO R 6s	151		KRB on single steel pile.	Private aid.
		*		*			33/03
21840	TREE POINT LIGHT	54 48 10 N 130 56 02 W	FI W 6s	86	9	White square tower on building.	Obscured from 158° to 318°.
		*					33/03
<b>Portland Canal</b>							
21875	REEF ISLAND LIGHT	55 04 44 N 130 12 11 W	FI W 4s	19	6	NR on spindle.	Higher intensity beam up Portland Canal, higher intensity beam down Pearse Canal. Obscured from 020.5° to 197.5°.
		*					33/03
21925	FOGGY POINT LIGHT	54 55 26 N 130 58 39 W	FI W 4s	17	6	NR on skeleton tower.	
		*					33/03
21940	MARY ISLAND LIGHT	55 05 57 N 131 10 57 W	FI W 6s	76	6	On white square tower on white building.	Obscured from 341° to 150°.
		*					33/03
22142	Tongass Narrows East Channel Regulatory Buoy	55 19 22 N 131 36 41 W				White with orange bands labeled "7 KTS".	
	*						33/03
22156	Tongass Narrows West Channel Regulatory Buoy	55 19 31 N 131 39 13 W				White with orange bands labeled "7 KTS".	
	*						33/03
*22466	COFFMAN COVE LIGHTED BUOY 4	56 00 51 N 132 50 06 W	FI R 2.5s		3	Red.	
							33/03
*22467	COFFMAN COVE LIGHTED BUOY 3	56 01 05 N 132 50 08 W	FI G 6s		3	Green.	
							33/03
*22468	COFFMAN COVE LIGHT 2	56 01 14 N 132 50 18 W	FI R 4s	32	3	TR on tower.	
							33/03

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## SECTION II

### CORRECTIONS TO C. G. LIGHT LIST, VOLUME VI LIGHT LIST, 2003

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
*22469	COFFMAN COVE ENTRANCE LIGHT	56 01 23 N 132 49 38 W	FI W 2.5s	40	5	NR on tower.	33/03
29175	- Entrance Lighted Buoy H	21 16 50 N 157 52 47 W	Mo (A) W		6	Red and white stripes with red spherical topmark.	RACON: O (---).  * 33/03

### CORRECTIONS TO C. G. LIGHT LIST, VOLUME VII LIGHT LIST, 2003

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
	<b>*Add Heading: *ISLE ROYAL (Chart 14967)</b>						
16705	Harlem Reef Buoy 2					Red nun.	Maintained from May 28 to Oct. 14.  33/03
	<b>*Add Heading: *ISLE ROYALE (Chart 14976)</b>						
16710	Isle Royale Light	47 56 54 N 88 45 42 W	FI W 6s	72	10	White octagonal tower with dwelling attached. 61	33/03
*19956	NORTHERLY ISLAND DANGER LIGHTED BUOY A	41 51 52 N 87 36 21 W	FI W 2.5s			White and orange bands and diamond worded DANGER SUBMERGED BULKHEAD.	Maintained from Apr. 15 to Oct. 31. Private aid.  33/03
*19956.1	NORTHERLY ISLAND DANGER LIGHTED BUOY B	41 51 49 N 87 36 21 W	FI W 2s			White and orange bands and diamond worded DANGER SUBMERGED BULKHEAD.	Maintained from Apr. 15 to Oct. 31. Private aid.  33/03
*19956.2	NORTHERLY ISLAND DANGER LIGHTED BUOY C	41 51 45 N 87 36 21 W	FI W 2s			White with orange bands and diamond worded DANGER SUBMERGED BULKHEAD.	Maintained from Apr. 15 to Oct. 31. Private aid.  33/03

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## SECTION II

### CORRECTIONS TO PUB 110, LIST OF LIGHTS, 2003 EDITION

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PUERTO DE MONTEVIDEO:							
19136 <i>G 0704</i>	-Sarandi E. breakwater, head.	34° 54.9' S 56° 13.3' W	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	72 22	8	Red tower.	F.R. lights on tower 2.1 miles ENE.
			*				33/03
19140 <i>G 0706</i>	-Detached W. breakwater, SE. head.	34° 54.8' S 56° 13.6' W	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	72 22	13	Green tower.	
			*		*		33/03

### SUMMARY OF CORRECTIONS TO PUB 111, LIST OF LIGHTS, 2003 EDITION

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
480 <i>G 3035</i>	-Punta de Piedra.	2° 25.9' S 79° 51.2' W	<b>Fl.R.</b> period 5s	23 7	8	White metal tower; 23.	
			*	*	*		33/03
*1497	La Barra.	39° 23.1' S 73° 13.2' W	<b>Fl.G.</b> period 5s fl. 1s, ec. 4s	16 5	2	PORT (B) G, tower; 16.	
							30/03
*1498	Roca Queule.	39° 23.2' S 73° 13.1' W	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	13 4	2	PORT (B) G, tower; 13.	
							30/03
*1499	Punta Cuartel.	39° 23.2' S 73° 13.1' W	<b>Fl.R.</b> period 5s fl. 1s, ec. 4s	16 5	2	STARBOARD (B) R, tower; 13.	
							30/03
2128 <i>G 1534.7</i>	-Punta Sunbeam.	50° 05.0' S 74° 39.0' W	<b>Fl.(4)W.</b> period 12s	20 6	5	White fiberglass tower, black band; 20.	Visible 106°-333°.
			*	*	*		30/03
4604 <i>K 4011</i>	-Steeple Rock.	41° 19.5' S 174° 50.7' E	<b>Iso.W.R.</b> period 6s	23 7	W. 9 R. 8	White round tower, red band.	W. 133°-190°, R.-015°.
		*	*		*		28/03
4606 <i>K 4012</i>	-Falcon Shoals.	41° 18.3' S 174° 51.0' E	<b>Fl.R.</b> period 3s	20 6	3	Red mast on black and white pile.	
		*	*			*	28/03
4728 <i>K 4066.2</i>	Ohau Point.	41° 14.6' S 174° 38.7' E	<b>Fl.(2)W.</b> period 15s fl. 1s, ec. 2s fl. 1s, ec. 11s	340 104	8	White metal tower; 13.	Visible 094°-shore at Makara Bay.
		*	*			*	28/03

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## SECTION II

### SUMMARY OF CORRECTIONS TO PUB 111, LIST OF LIGHTS, 2003 EDITION

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
5285 <i>K 4315</i>	-Akaroa Harbor Range, front.	43° 49.2' S 172° 54.2' E	F.G.	27 8	7	Wooden mast; 23.	
			*			*	28/03
5286 <i>K 4315.1</i>	-Rear, 0.88 mile 331°20' from front.	43° 48.2' S 172° 53.4' E	F.G.	272 83	7	Wooden pole; 23.	
			*			*	28/03
5324 <i>K 4328.1</i>	-Middle, 982 meters 267°10' from front.	44° 23.1' S 171° 14.8' E	Dir.W.R.G.	82 25	W. 21 R. 17 G. 17	Beacon, orange triangular daymark; 14.	F.G. 264°30'-266°, Al.W.G.-266°42', W. phase increasing with bearing, F.W.-267°30', Al.W.R.-268°12', R. phase increasing with bearing, F.R.-269°42'.
			F.G. (neon)	82 25	10		
		*		*			28/03
5352 <i>K 4352</i>	-Near Oamaru Creek.						<i>Remove from list.</i>
							* 28/03
OAMARU:							
5356 <i>K 4350</i>	-Holmes wharf.	45° 06.4' S 170° 58.7' E	F.G.	13 4	2	Lamp post.	
			*			*	28/03
5358 <i>K 4348</i>	-Breakwater, head.	45° 06.4' S 170° 58.8' E	Fl.R. period 5s	25 8	5	Framework tower.	
			*				* 28/03
6056 <i>K 2771</i>	-Nelson Head, port, S. side.						<i>Remove from list.</i>
							* 29/03
*6070 <i>K 2733</i>	-Entrance.	32° 54.8' S 151° 47.9' E	F.G.	30 9	2		
							30/03
7146 <i>K 3577.4</i>	-Jetty, head.	41° 06.6' S 146° 49.2' E	F.R.			Shed.	
			*				33/03
7152 <i>K 3580</i>	-Salt Pan Point.						<i>Remove from list.</i>
							* 33/03
7156.6 <i>K 3582</i>	-Beauty Point Harbor, Orari Bank.	41° 08.7' S 146° 49.7' E	V.Q.W.	13 4	2	Black and yellow framework tower, red double cone daymark, points up.	
		*	*				* 33/03

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## SECTION II

### SUMMARY OF CORRECTIONS TO PUB 111, LIST OF LIGHTS, 2003 EDITION

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
7156.7 <i>K 3582.4</i>	-W. side of entrance.	41° 08.7' S 146° 49.5' E	<b>FL.G.</b> period 1.5s			Pile.	
		*	*				33/03
7156.9 <i>K 3582.6</i>	-W. side of channel.						<i>Remove from list.</i>
							*
							33/03
7157.2 <i>K 3584.3</i>	-Bell Bay No. "2".	41° 08.8' S 146° 50.8' E	<b>Fl.(2)R.</b> period 4s			Red beacon.	
	*	*					33/03
7157.3 <i>K 3584.4</i>	-No. "1".	41° 08.9' S 146° 50.8' E	<b>Q.(2)G.</b> period 5s	16 5	3	STARBOARD (A) G, beacon, topmark.	<b>Radar reflector.</b>
		*	*			*	33/03
7157.4 <i>K 3584.6</i>	-No. "4".	41° 08.7' S 146° 51.1' E	<b>FL.R.</b> period 3s	16 5	3	Red metal framework tower on piles.	<b>Radar reflector.</b>
	*	*					33/03
7157.5 <i>K 3585</i>	-Middle Island, N. end.						<i>Remove from list.</i>
							*
							33/03
8308 <i>K 2058.5</i>	-NW. Revetment Mound, head.	34° 47.0' S 138° 28.2' E	<b>Q.R.</b>				
		*	*				29/03
8324 <i>K 2059.6</i>	-Channel beacon No. "8".	34° 46.2' S 138° 29.0' E	<b>F.R.</b>			PORT (A) R, beacon, topmark.	
	*		*				29/03
*8325 <i>K 2059.61</i>	-No. "8A".	34° 46.0' S 138° 29.0' E	<b>V.Q.R.</b>			PORT (A) R, beacon, topmark.	
							29/03
8824 <i>K 1809</i>	Cull Island.	33° 55.4' S 121° 54.2' E	<b>Fl.(4)W.</b> period 16s	311 95	11	White hut; 7.	
		*	*		*	*	31/03
9083 <i>K 1767.115</i>	-Rear, 160 meters 220°18' from front.	32° 03.4' S 115° 44.2' E	<b>F.Bu.</b>			Beacon, triangular daymark, point down.	
	*						31/03
9169.5	-Fairway buoy.	28° 46.2' S 114° 31.7' E	<b>L.FI.W.</b> period 10s			SAFE WATER RW, pillar, topmark.	
	-RACON		<b>G(--)</b>				
		*					32/03
*9778 <i>K 3235.5</i>	Osborne Reef.	12° 59.7' S 143° 43.6' E	<b>V.Q.(3)W.</b> period 5s			E. CARDINAL BYB, pillar, topmark.	
	RACON		<b>O(--)</b>				
							29/03

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## SECTION II

### SUMMARY OF CORRECTIONS TO PUB 111, LIST OF LIGHTS, 2003 EDITION

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
9778 <i>K 3235.5</i>	<i>Osborne Reef.</i>	12° 59.7' S 143° 43.5' E	<b>V.Q.(3)W.</b> period 5s			E. CARDINAL BYB, pillar, topmark.	
	RACON		O(- - -)				30/03
		*					
*9782 <i>K 3235</i>	<i>Diamond Reign Reefs.</i>	13° 11.5' S 143° 47.8' E	<b>Q.(3)W.</b> period 10s			E. CARDINAL BYB, pillar, topmark.	
	RACON		K(- - -)				29/03
*9822 <i>K 3223</i>	<i>Fairway Channel.</i>	13° 54.0' S 144° 17.2' E	<b>V.Q.(9)W.</b> period 10s			W. CARDINAL YBY, pillar, topmark.	
	RACON		B(- . . .)				29/03
9896 <i>K 3194</i>	<b>Low Islets.</b>	16° 23.1' S 145° 33.5' E	<b>Fl.W.</b> period 10s	65 <b>20</b>	<b>17</b>	White round tower, red dome; 60.	
		*			*		30/03
10400 <i>K 2978.1</i>	--Rear, 1.56 miles 312°04' from front.	23° 48.0' S 151° 15.9' E	<b>Iso.W.</b> period 2s	52 <b>16</b>		White round tower; 7.	F.W. by day (occas).
			*				32/03
10445 <i>K 2989.9</i>	-Targinie Channel Range, front.	23° 48.9' S 151° 14.8' E	<b>Q.W.</b>			Black and yellow beacon, triangular topmark.	Targinie Channel marked by synchronized beacons "T1" to "T6".
			<b>Fl.Y.</b> period 2.5s			Orange rectangular daymark, yellow stripe.	
			*				32/03
10445.5 <i>K 2989.91</i>	--Rear, 0.8 mile 113°36' from front.	23° 49.1' S 151° 15.6' E	<b>Iso.W.</b> period 2s			Black and yellow beacon.	
			<b>Fl.(2)W.</b> period 6s				
	*		*				32/03

### SUMMARY OF CORRECTIONS TO PUB 111, DIFFERENTIAL GPS STATIONS, 2003 EDITION

(1) No.	(2) Name	(3) Position	(4) Station ID	(5) Range	(6) Frequency	(7) Transfer Rate	(8) Remarks
*4400	Exmouth	21°53.1' S 114°08.0' E	T 715 R 15	200	297	200	Message Types: 3, 5, 7, 9, 16.
							30/03

### CORRECTIONS TO PUB 112, LIST OF LIGHTS, 2003 EDITION

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
852 <i>F 6730</i>	Todohokke Ko, E. breakwater.	41° 49.5' N 141° 10.0' E	<b>Fl.G.</b> period 4s	49 <b>15</b>	7	White tower; 31.	
				*		*	33/03

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## SECTION II

### CORRECTIONS TO PUB 112, LIST OF LIGHTS, 2003 EDITION

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
* 7472.5 F 5857.5	-No. "1" breakwater, W. head.	34° 39.2' N 135° 11.4' E	<b>Iso.R.</b> period 6s	43 13	11	Red tower; 36.	
							33/03
16716 F 4377	Chuksong.						<i>Remove from list.</i>
							*
							33/03
17894 F 4156.5	Gain Seo.	37° 00.2' N 126° 18.9' E	<b>Fl.W.</b> period 5s	79 24	8	Round fiberglass tower; 31.	
	RACON		<b>C(- · - ·)</b>		10		
	*	*	*		*		33/03
* 24135.5 F 9516.31	D35 O-A Platform RACON.	3° 45.8' N 112° 03.8' E	<b>D(- · ·)</b>				
							33/03
* 24141 F 9526.3	Central Luconia Gas Field Platform RACON.	4° 20.1' N 112° 40.7' E	<b>L(- · · ·)</b>				
							33/03

### CORRECTIONS TO PUB 113, LIST OF LIGHTS, 2002 EDITION

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
2468 D 1695	-Bateria de S. Cristobal.	43° 27.9' N 8° 18.3' W	<b>Oc.(2)W.R.</b> period 10s lt. 4.6s, ec. 1.8s lt. 1.8s, ec. 1.8s	69 21	7	White truncated conical tower; 20.	W. 044°-064°, R. -044°.
							*
							33/03
2536 D 1701	Ria de Betanzos, Escollo Pulqueria.						<i>Remove from list.</i>
							*
							33/03
	LA CORUNA:						
2548 D 1704	-Torre de Hercules.	43° 23.2' N 8° 24.4' W	<b>Fl.(4)W.</b> period 20s fl. 0.3s, ec. 3s fl. 0.3s, ec. 3s fl. 0.3s, ec. 3s fl. 0.3s, ec. 9.8s	348 106	23	Dark masonry tower, lower part square, upper part octagonal; 161.	<b>Siren:</b> (about 165 meters 338° from light) Mo.(L) ev. 30s (bl. 1.5s, si. 1.5s, bl. 4.5s, si. 1.5s, bl. 1.5s, si. 1.5s, bl. 1.5s, si. 16.5s).
		*					*
							33/03
17620 E 4999	Kamchiya, N. side river entrance.						<i>Remove from list.</i>
							*
							33/03
* 17646 E 5009.5	Balcik.	43° 24.2' N 28° 09.9' E	<b>F.W.</b>				
							33/03

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## SECTION II

### CORRECTIONS TO PUB 113, LIST OF LIGHTS, 2002 EDITION

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
17648.5 <i>E 5010.4</i>	<b>-Nos Balchik.</b>						<i>Remove from list.</i>
							* 33/03
20760 <i>E 5874.4</i>	Karatas, main breakwater, head.	36° 33.4' N 35° 23.1' E	<b>Fl.R.</b> period 5s fl. 1s, ec. 4s	33 <b>10</b>	8	Concrete tower.	
			*	*	*		33/03
20764 <i>E 5874.5</i>	-Small breakwater, head.	36° 33.5' N 35° 23.0' E	<b>Fl.G.</b> period 5s fl. 1s, ec. 4s	30 <b>9</b>	7	Concrete tower.	
			*	*	*		33/03
*20766 <i>E 5874.6</i>	- -SE.	36° 33.4' N 35° 23.3' E	<b>Fl.R.</b> period 10s fl. 1s, ec. 9s	33 <b>10</b>	9	White framework structure.	
							33/03

### CORRECTIONS TO PUB 113, RADIOBEACONS, 2002 EDITION

(1) No.	(2) Name	(3) Position	(4) Characteristic	(5) Range	(6) Sequence	(7) Frequency	(8) Remarks
200	Torre de Hercules Light Station						<i>Remove from list.</i>
							* 33/03

### CORRECTIONS TO PUB 116, LIST OF LIGHTS, 2003 EDITION

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
8644 <i>C 6842</i>	-Vinterklasen Range, front.	58° 38.5' N 17° 08.0' E	<b>F.R.</b>	30 <b>9</b>	9	Post, red triangular daymark.	
						*	33/03
8756 <i>C 6796</i>	<b>Nykoping AVIATION LIGHT.</b>	58° 47.0' N 16° 55.0' E	<b>Fl.(7)W.</b> period 19s	148 <b>45</b>	23	2 yellow and red framework masts.	Obstruction.
							* 33/03
9028 <i>C 6587.95</i>	Olandssten.	58° 48.0' N 17° 52.0' E	<b>I.V.Q.W.R.G.</b> period 6s	20 <b>6</b>	W. 5 R. 3 G. 3	White hut, green band.	G. 220°30'-254°, W.-258°30', R.-329°30', G.-016°, W.-020°, R.-040°, G.-073°, W.-075°30', R.-220°30'.
						*	33/03
9144 <i>C 6592</i>	Viksten Islet.	58° 47.0' N 17° 57.0' E	<b>Q.W.</b>	33 <b>10</b>	5	White framework structure, red band.	Visible 144°-188°.
						*	33/03
9146 <i>C 6590</i>	-NW. point.	58° 47.6' N 17° 56.9' E	<b>Fl.(2)W.R.G.</b> period 6s	55 <b>17</b>	W. 8 R. 5 G. 4	White octagonal tower, green band, concrete base.	G. 018°-025°, W.-029°, R.-065°, G.-097°, W.-098°, R.-118°, G.-154°, R.-187°, G.-201°, W.-208°, R.-216°30'.
						*	33/03

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## SECTION II

NM 33/03

PUBLICATIONS AFFECTED BY NOTICE TO MARINERS  
THROUGH NM 33/03

Note: \* indicates New Edition/New Publication; \*\* indicates Publication Canceled; N indicates Not For Sale

NIMA Reference No.	Ed.	Notice to Mariners No.	NIMA Reference No.	Ed.	Notice to Mariners No.	NIMA Reference No.	Ed.	Notice to Mariners No.
<b>NIMA HYDRO CATALOG</b>		<b>CATP2V01U</b>	SDPUB140	2001	21*,48,49,51/01;8,17,23,32,42,43,44,46,47,48,50/02;4,6,7,8,9,11,12,15,19,21,22,23,24,25,26,31,32/03	<b>USCG LIGHT LIST VOLUMES I - VII</b>		
Region 1	2002	1*,2,3,4,7,8,9,10,11,14,15,17,19,20,21,22,23,24,25,26,27,28,29,30,31,32/03				COMDTM165021	2003	17*,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33/03
Region 2	2002	1*,8,15,17,20,21,22,23,24,26,28,30,32,33/03	SDPUB141	2001	21*,38/01	COMDTM165022	2003	17*,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33/03
Region 3	2002	1/03*	SDPUB142	2000	49/00*;3,31,35/01;1,15,43/02	COMDTM165023	2003	17*,18,19,20,21,23,24,25,26,28,29,31,32,33/03
Region 4	2002	1*,23/03	SDPUB143	2000	8*,10,19,29/00;16,26/01;1,25/02;9/03	COMDTM165024	2003	18*,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33/03
Region 5	2002	1*,3,5,8,22,27,30,33/03	SDPUB145	2000	13*,14,18,19,22,26,32,37,38,46,47,51,53/00;1,4,5,7,10,12,28,29,35,52/01;14,27/02	COMDTM165025	2002	16/02*
Region 6	2002	1*,10,11,13,16,19,20,21,25,28,30,33/03				COMDTM165026	2003	18*,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33/03
Region 7	2002	1*,11,15,28/03	SDPUB147	2001	35/01*;21,22,23,24/02			
Region 8	2002	1*,14/03						
Region 9	2002	1/03*	SDPUB148	2001	48/01*;23,24/02;22/03	COMDTM165027	2003	18*,20,21,22,23,24,26,27,28,30,31,32,33/03
Miscellaneous Charts and Publications	2002	1*,2,4,5,6,7,9,11,12,13,15,17,18,19,20,21,23,24,25,27,28,29,30,31,32,33/03	SDPUB153	2000	6/01*;28,30,41,44,46,47,48,52/02;1,3,4,8,13,15,22,25,32/03	<b>FLEET GUIDES</b>		
NIMA Reference No./NSN Conversion Table	2002	1/03*	SDPUB154	2002	17*,19,31,42,44,45,46,48,50/02;3,14,19,23,30/03	FGPUB940ATL	2001	N47/01*
						FGPUB941PAC	2001	N22/01*
<b>NIMA LIST OF LIGHTS</b>			SDPUB155	2001	31*,48/01;10,45,46/02	<b>NOS MISCELLANEOUS PUBLICATIONS</b>		
LLPUB110	2003	7*,8,9,11,13,14,15,16,17,18,20,21,23,24,25,26,27,28,29,31,32,33/03	SDPUB159	2002	42*,48/02	NOSPBCATALOG1	2000	20/00*
LLPUB111	2003	33/03*	SDPUB160	2002	47*,48,49,52/02;6,8,10,11,19,21,22,23,30,33/03	NOSPBCATALOG2	2000	34/00*
LLPUB112	2003	4*,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33/03	SDPUB161	2002	23*,24,44,47,48/02;5,12/03	NOSPBCATALOG3	2000	28/00*
LLPUB113	2002	45*,47,48,50,51,52/02;1,2,3,4,5,6,7,8,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33/03	SDPUB162	2001	51/01*;5,12/03	NOSPBCATALOG4	2000	34/00*
LLPUB114	2003	17*,19,21,22,23,24,27,31,32/03	SDPUB163	2002	18*,20,21,26,46,51/02;13,24,26,27,28,29,30,31/03	<b>ALMANACS</b>		
LLPUB115	2002	39*,40,41,44,45,50,51,52/02;1,15,19,20,26/03	SDPUB164	2000	30/00*;31,35,36/01;8,28/03	AIRALMANAC401	2004	29/03*
LLPUB116	2003	24*,26,27,28,29,30,31,32,33/03	SDPUB171	2001	40*,47,48,52/01;5,9,14,16,41/02;23,24,26/03	NAUTALMANAC04	2004	29/03*
<b>SAILING DIRECTIONS</b>			SDPUB172	2001	1*,2,3,5,6,7,8,9,14,15,16,17,18,19,20,22,24/02;1,11,12,13,14,15,19,20,22,23,25,26,27,28,29,31,32,33/03	<b>COAST PILOT</b>		
CDPUBSD125	2003	19/03*	SDPUB173	2002	50*,51/02;3,22,24,25,26,27,32,33/03	NOSPBCP1	33	27*,28,29,32,33/03
CDPUBSD131	2002	9/03*	SDPUB174	2000	7*,19,37,45,51,52/01;1,5,14,19,22,28,33,37,38,48/02;30/03	NOSPBCP2	32	17*,18,21,22,26,28,30,32,33/03
CDPUBSD146	2002	4/03*	SDPUB175	2001	41*,43,45,51/01;8,11,12,13,14,16,17,21,27,37,41,49/02;26,27,29,32/03	NOSPBCP3	35	3*,5,7,12,15,17,18,21,22,27,28,33,37,42,45,49,51/02;3,10,12,13,14,18,20,27/03
CDPUBSD157	2003	17/03*	SDPUB180	2002	32*,33,42,47,48,50/02;6,13,14,17,21,24/03	NOSPBCP4	34	49*,51/02;12,14,18,20,21,22,27,32/03
CDPUBSD158	2003	24/03*	SDPUB181	2002	38*,39/02	NOSPBCP5	30	2*,6,10,12,14,18,20,27,30,32/03
CDPUBSD192	2003	32/03*	SDPUB182	2001	8*,10,12,41/02;17/03	NOSPBCP6	33	23*,27,29,32/03
CDPUBSD194	2002	6*,8,15,17,30,33/03	SDPUB183	2001	27/01*;13,15,16/02;18/03	NOSPBCP7	34	1*,3,10,18,20,21,22,27,30,32/03
SDPUB120	2001	12*,18,48,49,51/01;8,13,14,21,22,24,29,33,35,37,42,43,44,45,47/02;4,6,7,8,9,10,11,12,14,17,20,21,23,29,30,31/03	SDPUB184	2001	26,27,29,32/03	NOSPBCP8	25	32*,33/03
SDPUB123	2001	45*,47,48/01;1,14,17,18,19/02;24,25,27,28,32/03	SDPUB185	2001	26,27,29,32/03	NOSPBCP9	21	30*,32,33/03
SDPUB124	2001	18*,44,45,47,48,49,52/01;17,19,20,21,29,30,31,34,46,50/02;24,25,27,28,29,30,32/03	SDPUB191	2000	5*,7,8,9,10,11,12,13,14,15,16,17,18,19,20,22,23,27,28,29,30,31,33,34,36,44,45,47,48/01;10,14,15,16,17,42,50/02;2,9,12,15,18,22/03	<b>RADIO NAVIGATIONAL AIDS</b>		
SDPUB126	2002	39*,41,42,43,44,45,48/02;24,26,27,28,30,32/03	SDPUB193	2000	27*,38,49/00;9,26,27,31,32/01;14,15,26,52/02;18,19,20,23,29/03	RAPUB117	2002	50/02*;13/03
SDPUB127	2000	37*,38/00;18,33,40,44,45,48,49,52/01;1,11,13,17,18,27,33,34,37,41,47,49,51/02;5/03	SDPUB195	2002	33*,40,49,51,52/02;1,2,3,15,16,21,32,33/03	<b>AMERICAN PRACTICAL NAVIGATOR</b>		
SDPUB132	2000	39*,45/00;16,17,31,35/01;1,12,21,25,26/02;2,10/03	SDPUB200	2002	38*,39,42/02;22,27/03	NVPUB9	2002	36/02*;14/03
						<b>INTERNATIONAL CODE OF SIGNALS</b>		
						CDPUBNV102	2003	20/03*
						<b>WORLD PORT INDEX</b>		
						NVPUB150	2000	50/00*;14,15,16,20,21,41,42,43,44,45,46,47,48,49,51,52/01;1,2,5,6,10,11,12,16,19,21,22,27,31,32,33,36,39,40,42,46,49/02;2,7,10,15,20/03
						<b>DISTANCES BETWEEN PORTS</b>		
						NVPUB151	2001	4/02*
						<b>RADAR NAVIGATION AND MANEUVERING BOARD MANUAL</b>		
						CDPUBNV1310	2001	51/01*

**PUBLICATIONS AFFECTED BY NOTICE TO MARINERS  
THROUGH NM 33/03**

Note: \* indicates New Edition/New Publication; \*\* indicates Publication Canceled; N indicates Not For Sale

NIMA Reference No.	Ed.	Notice to Mariners No.
<b>SIGHT REDUCTION TABLES (MARINE)</b>		
SRPUB229V1	1970	11/71*
SRPUB229V2	1970	11/71*
SRPUB229V3	1970	7/71*
SRPUB229V4	1970	3/71*
SRPUB229V5	1970	3/71*
SRPUB229V6	1970	23/70*
<b>SIGHT REDUCTION TABLES (AIR)</b>		
SRPUB249V1	2000	4/01*
SRPUB249V2	1952	46/52*
SRPUB249V3	1952	46/52*
<b>CHART NO. 1</b>		
WOBZC1	1997	18/98*
<b>CHART NO. 4</b>		
WOBZC4	1988	N23/91*
<b>ATLAS OF PILOT CHARTS</b>		
NVPUB107	1998	30/99*
NVPUB109	2001	49/02*
<b>USCG NAVIGATION RULES</b>		
COMDTM166722D	1999	44/99*;52/00
<b>NOS TIDE TABLES</b>		
NOSPBTTWCWPACIN3	2003	N4/03*
NOSPBTTTECSTNSA3	2003	N4/03*
NOSPBTTTEURAFR3	2003	N4/03*
NOSPBTTWCSTNSA3	2003	N4/03*
<b>TIDAL CURRENT TABLES</b>		
NOSPBTCATCSTN3	2003	N4/03*
NOSPBTCIPACAS3	2003	N4/03*

**BROADCAST WARNINGS**

Details concerning the particulars of the broadcasting of radio navigational warnings may be found in Radio Navigational Aids, Pub. 117.

**NAVAREA IV**

Messages in force 311200Z July 2003:

2001 series	468(GEN)	261(GEN)	286(11)	305(GEN)	311(11,25,26)
393(GEN)	2003 series	262(11)	298(11)	307(GEN)	312(14)
2002 series	108(26,27)	270(11)	302(GEN)	308(GEN)	
219(GEN)	236(11)	280(24)	304(11,26)	310(11,12,26)	

The summary of all NAVAREA IV messages in force as of 12 December 2002 is given in Section III of NM 52/02. Warnings issued during the subsequent quarters are issued in NM 13/03 and 26/03.

**NAVAREA IV WARNINGS issued from 241200Z to 311200Z July 2003.**

301/03. CANCELED.

302/03(GEN). GPS SATELLITE SYSTEM.  
PRN 29 UNUSABLE.

(250440Z JUL 2003)

303/03. CANCELED.

304/03(11,26). NORTH ATLANTIC. HAZARDOUS OPERATIONS.

## 1. HAZARDOUS OPERATIONS:

- A. 0400Z TO 0359Z COMMENCING DAILY  
28 JUL THRU 03 AUG IN AREA BOUND BY  
30-45N 080-54W, 30-45N 080-11W,  
30-36N 080-11W, 30-34N 080-33W.
- B. 0400Z TO 0359Z COMMENCING DAILY  
28 JUL THRU 03 AUG IN AREA BETWEEN  
29-10N 29-20N AND 079-40W 079-50W.
- C. 1300Z TO 0600Z COMMENCING DAILY  
29 JUL THRU 01 AUG IN AREA BETWEEN  
30-00N 29-50N AND 081-00W 080-50W.
- D. 1300Z TO 1430Z AND 1700Z TO 1830Z  
DAILY 28 JUL THRU 01 AUG IN AREA BOUND BY  
31-26N 080-55W, 31-20N 080-20W,  
31-20N 078-21W, 32-15N 078-21W,  
32-45N 079-45W, 32-20N 080-17W,  
31-26N 080-55W.

## 2. CANCEL THIS MSG 040459Z AUG.

(251710Z JUL 2003)

305/03(GEN).

- 1. NAVAREA IV MESSAGES IN FORCE 261000Z JUL 2003. ONLY THOSE MESSAGES ISSUED DURING THE LAST SIX WEEKS ARE LISTED HEREIN.  
2003 SERIES: 261(GEN), 262(11), 270(11), 280(24), 286(11),  
294(GEN), 295(12,13), 297(11,26), 298(11), 300(14),  
302(GEN), 304(11,26).
- 2. THE SUMMARY OF ALL NAVAREA IV MESSAGES IN FORCE AS OF 12 DEC 2002 IS GIVEN IN SEC III OF NM 52/02.  
WARNINGS ISSUED DURING THE SUBSEQUENT QUARTERS ARE SUMMARIZED IN NM 13/03.
- 3. CANCEL NAVAREA IV 299/03.

(261010Z JUL 2003)

306/03. CANCELED.

307/03(GEN). GPS SATELLITE SYSTEM.

- 1. PRN 10 UNUSABLE 010315Z TO 011515Z AUG.
- 2. CANCEL THIS MSG 011615Z AUG.

(281325Z JUL 2003)

308/03(GEN). MARITIME SAFETY INFORMATION DIVISION WEBSITE.

- 1. NIMA MARITIME SAFETY INFORMATION DIVISION WEBSITE INTERMITTENTLY UNUSABLE 311600Z TO 311800Z JUL. FOR URGENT SERVICE CONTACT NIMA NAVSAFETY DSN: 287 3149, COMM: 1 800 362 6289 OR 301 227 3149,  
E-MAIL: NAVSAFETY@NIMA.MIL OR MSG TO NIMA NAVSAFETY BETHESDA MD.
- 2. CANCEL THIS MSG 311900Z JUL.

(281905Z JUL 2003)

309/03. CANCELED.

310/03(11,12,26). VIRGINIA. NAVTEX.  
NAVTEX STATION CHESAPEAKE OFF AIR.

(290015Z JUL 2003)

311/03(11,25,26). NORTH ATLANTIC. HAZARDOUS OPERATIONS.  
1. HAZARDOUS OPERATIONS 032258Z TO 040109Z AUG, ALTERNATE  
042259Z TO 050110Z AUG IN AREAS BOUND BY:  
A. 28-36N 080-36W, 28-30N 079-57W,  
28-27N 079-58W, 28-28N 080-32W.  
B. 23-06N 059-09W, 21-44N 055-51W,  
20-31N 056-20W, 21-54N 059-37W.  
2. CANCEL THIS MSG 050210Z AUG.

(300940Z JUL 2003)

312/03(14). NORTH ATLANTIC.  
1. CABLE OPERATIONS 04 THRU 11 AUG BY  
CABLESHIP GLOBAL LINK VICINITY  
41-36.1N 052-34.2W.  
TWO MILE BERTH REQUESTED.  
2. CANCEL THIS MSG 12 AUG.

(302043Z JUL 2003)

313/03 and 314/03. CANCELED.

## HYDROLANTS

Messages in force 311200Z July 2003:

2000 series	2682(51)	903(36)	1239(GEN)	1373(52,53)	1447(36)
2937(38)	2848(37)	925(53)	1242(24)	1374(52,53)	1449(36)
3762(43)	2869(52)	948(57)	1243(54)	1395(55)	1450(24)
4265(44)	2882(54)	1048(57)	1244(53)	1406(51)	1451(24)
2001 series	2883(54)	1088(57)	1255(44)	1422(53)	1452(24)
611(44)	2003 series	1117(37)	1265(52)	1423(36)	1453(55)
2659(GEN)	41(37)	1161(51,52)	1291(37)	1424(GEN)	1454(53)
2700(37)	67(37)	1182(53)	1298(37)	1430(53)	1456(38)
3161(44)	390(22)	1186(43)	1301(37)	1434(52)	1457(52)
2002 series	544(55)	1192(35,43)	1303(54)	1435(23,29)	1458(53)
245(GEN)	604(26,27)	1193(37)	1332(43)	1436(GEN)	
246(GEN)	675(37)	1201(57)	1342(55)	1441(53)	
383(53)	738(35)	1212(38)	1349(36,37)	1443(24)	
2203(51)	754(37)	1213(35)	1354(57)	1444(GEN)	
2673(GEN)	867(37)	1238(37)	1361(51,52)	1446(GEN)	

The summary of all HYDROLANTS in force as of 12 December 2002 is given in Section III of NM 52/02. Warnings issued during the subsequent quarters are issued in NM 13/03 and 26/03.

**HYDROLANT WARNINGS issued from 241200Z to 311200Z July 2003.**

1423/03(36). IRISH SEA.

1. UNDERWATER OPERATIONS IN PROGRESS UNTIL FURTHER NOTICE BY CABLESHIP WAVE SENTINEL VICINITY 52-50N 005-40W. WIDE BERTH REQUESTED.
2. CANCEL HYDROLANT 1414/03, AID RESTORED.
3. CANCEL HYDROLANT 1389/03.

(241450Z JUL 2003)

1424/03(GEN). GPS SATELLITE SYSTEM.  
PRN 29 UNUSABLE.

(250445Z JUL 2003)

1425/03 thru 1429/03. CANCELED.

1430/03(53). STRAIT OF SICILY.

1. SURVEY OPERATIONS IN PROGRESS UNTIL 02 AUG VICINITY 36-39-50N 014-07-52E. WIDE BERTH REQUESTED.
2. CANCEL HYDROLANT 2354/02, AID RESTORED.
3. CANCEL THIS MSG 03 AUG.

(251725Z JUL 2003)

1431/03 thru 1433/03. CANCELED.

1434/03(52). SPAIN-SOUTH COAST.

CHART 52040 (17TH ED).  
PUNTA DE TORROX LIGHT 36-43.7N 003-57.4W UNLIT.

(252335Z JUL 2003)

1435/03(23,29). SOUTH ATLANTIC. ICE.

1. ICEBERGS REPORTED ON 25 JUL:
  - A. A-38A, 22 MILES BY 48 MILES IN 58-42S 046-18W.
  - B. A-38B, 22 MILES BY 25 MILES IN 58-12S 047-48W.
  - C. A-38C, SEVEN MILES BY 11 MILES IN 57-18S 044-42W.
  - D. A-38D, TWO MILES BY TEN MILES IN 59-30S 050-30W.
  - E. A-43B, 13 MILES BY 40 MILES IN 54-24S 039-06W.
  - F. A-43C, 24 MILES BY 41 MILES IN 58-36S 031-54W.
  - G. A-43G, EIGHT MILES BY 49 MILES IN 49-54S 025-30W.
  - H. A-43I, TWO MILES BY 12 MILES IN 59-12S 035-48W.
  - I. A-46, FOUR MILES BY 11 MILES IN 53-48S 043-54W.
  - J. A-47, NINE MILES BY 14 MILES IN 52-18S 047-36W.
  - K. A-48, NINE MILES BY TEN MILES IN 59-24S 043-24W.
  - L. A-49, ONE MILE BY TEN MILES IN 63-06S 052-00W.
  - M. A-50, ONE MILE BY TEN MILES IN 59-00S 050-30W.
  - N. B-09A, 15 MILES BY 22 MILES IN 52-24S 016-36W.
2. CANCEL THIS MSG 02 AUG.

(260250Z JUL 2003)

1436/03(GEN).

1. HYDROLANT MESSAGES IN FORCE 261000Z JUL 2003. ONLY THOSE MESSAGES ISSUED DURING THE LAST SIX WEEKS ARE LISTED HEREIN.  
2003 SERIES: 1182(53), 1186(43), 1192(35,43), 1193(37), 1201(57), 1212(38), 1213(35), 1232(51,52), 1238(37), 1239(GEN), 1242(24), 1243(54), 1244(53), 1255(44), 1265(52), 1291(37), 1293(35), 1298(37), 1301(37), 1303(54), 1318(56), 1332(43), 1342(55), 1349(36,37), 1354(57), 1361(51,52), 1373(52,53), 1374(52,53), 1395(55), 1406(51), 1407(43), 1409(51), 1413(53), 1415(14), 1417(GEN), 1419(52,53), 1422(53), 1423(36), 1424(GEN), 1428(24), 1429(24), 1430(53), 1431(24), 1432(24), 1433(24), 1434(52), 1435(23,29).
2. THE SUMMARY OF ALL HYDROLANT MESSAGES IN FORCE AS OF 12 DEC 2002 IS GIVEN IN SEC III OF NM 52/02. WARNINGS ISSUED DURING THE SUBSEQUENT QUARTERS ARE SUMMARIZED IN NM 13/03.
3. CANCEL HYDROLANT 76/03, 317/03, 1355/03, 1385/03, 1393/03, 1402/03.

(261015Z JUL 2003)

1437/03 thru 1440/03. CANCELED.

1441/03(53). ITALY TO CORSICA.

- 15 METER S/V SAND CLIPPER, WHITE HULL WITH BLUE STRIPE, TWO PERSONS ON BOARD, UNREPORTED VENTOTENE ISLAND TO PORTOVECCHIO. VESSELS IN VICINITY REQUESTED TO KEEP A SHARP LOOKOUT, ASSIST IF POSSIBLE. REPORTS TO MRSC NAPLES, PHONE: 3908 1553 6017 OR MRCC ROME, PHONE: 3906 592 4145.

(261820Z JUL 2003)

1442/03. CANCELED.

1443/03(24). BRAZIL-SOUTH COAST.

- CHART 24120 (9TH ED).  
TORRES LIGHT 29-20.7S 049-43.7W UNLIT.

(280820Z JUL 2003)

1444/03(GEN). GPS SATELLITE SYSTEM.

1. PRN 10 UNUSABLE 010315Z TO 011515Z AUG.
2. CANCEL THIS MSG 011615Z AUG.

(281340Z JUL 2003)

1445/03. CANCELED.

1446/03(GEN). MARITIME SAFETY INFORMATION DIVISION WEBSITE.

1. NIMA MARITIME SAFETY INFORMATION DIVISION WEBSITE INTERMITTENTLY UNUSABLE 311600Z TO 311800Z JUL. FOR URGENT SERVICE CONTACT NIMA NAVSAFETY DSN: 287 3149, COMM: 1 800 362 6289 OR 301 227 3149. E-MAIL: NAVSAFETY@NIMA.MIL OR MSG TO NIMA NAVSAFETY BETHESDA MD.
2. CANCEL THIS MSG 311900Z JUL.

(281912Z JUL 2003)

1447/03(36). IRISH SEA. ISLE OF MAN.

- CHART 36060 (17TH ED).  
CALF OF MAN LIGHT 54-03N 004-50W UNRELIABLE.

(282253Z JUL 2003)

1448/03. CANCELED.

1449/03(36). IRISH SEA. ISLE OF MAN.

- CHART 36060 (17TH ED).  
CHICKEN ROCK LIGHT 54-02N 004-50W UNRELIABLE.

(290450Z JUL 2003)

1450/03(24). BRAZIL-SOUTH COAST.

1. SEISMIC SURVEY 291500Z JUL TO 011500Z AUG BY M/V THALES VENTURER TOWING 15 METER LONG CABLE IN AREA BOUND BY 23-28.0S 043-20.9W, 23-28.0S 042-46.6W, 24-05.0S 042-46.6W, 24-05.0S 043-21.0W. TEN MILE BERTH REQUESTED.
2. CANCEL HYDROLANT 1439/03.
3. CANCEL THIS MSG 011600Z AUG.

(290835Z JUL 2003)

## SECTION III

NM 33/03

- 1451/03(24). BRAZIL-EAST COAST.  
1. SEISMIC SURVEY IN PROGRESS UNTIL 010259Z AUG  
BY M/V CGG HARMATTAN TOWING SIX 6000 METER  
LONG CABLES IN AREA BETWEEN  
21-10S 20-50S AND 039-50W 040-18W.  
FOUR MILE BERTH REQUESTED.  
2. CANCEL HYDROLANT 1433/03.  
3. CANCEL THIS MSG 010359Z AUG. (290840Z JUL 2003)
- 1452/03(24). BRAZIL-NORTH COAST.  
1. SEISMIC SURVEY IN PROGRESS UNTIL 060300Z AUG  
BY M/V BULLDOG TOWING 15 METER LONG CABLE  
IN AREA BOUND BY  
04-40.1S 037-23.2W, 04-35.5S 037-20.2W,  
04-40.8S 037-13.2W, 04-45.4S 037-16.3W.  
ONE MILE BERTH REQUESTED.  
2. CANCEL HYDROLANT 1429/03.  
3. CANCEL THIS MSG 060400Z AUG. (290845Z JUL 2003)
- 1453/03(55). BLACK SEA. GUNNERY.  
1. GUNNERY EXERCISES 0700Z TO 1400Z DAILY  
30 AND 31 JUL IN AREA BOUND BY  
44-43.8N 032-52.2E, 44-34.8N 032-37.4E,  
44-39.0N 032-11.5E, 44-48.4N 032-08.2E,  
45-00.2N 032-14.2E, 44-52.2N 032-41.6E.  
2. CANCEL HYDROLANT 1232/03(51,52).  
3. CANCEL THIS MSG 311500Z JUL. (291120Z JUL 2003)
- 1454/03(53). TYRRHENIAN SEA. HAZARDOUS OPERATIONS.  
1. HAZARDOUS OPERATIONS 010001Z AUG TO 010001Z SEP  
WITHIN TEN MILES OF 39-00N 012-45E.  
2. CANCEL THIS MSG 010101Z SEP. (291140Z JUL 2003)
- 1455/03. CANCELED.
- 1456/03(38). NORTH ATLANTIC.  
1. SURVEY OPERATIONS 06 AUG THRU 05 SEP  
BY M/V NEXUS IN AREA BETWEEN  
59-15N 59-45N AND 013-00W 014-30W.  
WIDE BERTH REQUESTED.  
2. CANCEL HYDROLANT 1293/03.  
3. CANCEL THIS MSG 06 SEP. (301945Z JUL 2003)
- 1457/03(52). SPAIN-SOUTH COAST.  
1. OCEANOGRAPHIC OPERATIONS IN PROGRESS UNTIL 02 AUG  
BY M/V BAVENIT IN AREA BETWEEN  
36-33.8N 36-43.5N AND 002-02.3W 002-12.2W.  
2. CANCEL THIS MSG 03 AUG. (302328Z JUL 2003)
- 1458/03(53). SICILIA-SOUTHEAST COAST. GUNNERY.  
1. GUNNERY EXERCISES 0400Z TO 2000Z DAILY 01, 04 THRU 08,  
11 THRU 14, 19 THRU 22 AND 25 THRU 29 AUG  
WITHIN 1.5 MILES OF 36-39-19N 015-00-53E.  
2. CANCEL THIS MSG 292100Z AUG. (310950Z JUL 2003)

SECTION III

NM 33/03

NAVAREA XII

Messages in force 311200Z July 2003:

2001 series	178(GEN)	169(GEN)	188(GEN)	193(GEN)
298(GEN)	339(GEN)	186(GEN)	190(19)	195(18)
2002 series	2003 series	187(18,19)	191(GEN)	

The summary of all NAVAREA XII messages in force as of 12 December 2002 is given in Section III of NM 52/02. Warnings issued during the subsequent quarters are issued in NM 13/03 and 26/03.

NAVAREA XII WARNINGS issued from 241200Z to 311200Z July 2003.

186/03(GEN). GPS SATELLITE SYSTEM.  
PRN 29 UNUSABLE. (250450Z JUL 2003)

187/03(18,19). NORTH PACIFIC.  
1. DERELICT 40 FOOT S/V, WHITE HULL WITH BLUE TRIM, ADRIFT IN 32-06.1N 135-32.7W. REPORTS TO RCC ALAMEDA, TELEX: 2301 72343, PHONE: 510 437 3701.  
2. CANCEL THIS MSG 02 AUG. (260610Z JUL 2003)

188/03(GEN).  
1. NAVAREA XII MESSAGES IN FORCE 261000Z JUL 2003. ONLY THOSE MESSAGES ISSUED DURING THE LAST SIX WEEKS ARE LISTED HEREIN. 2003 SERIES: 166(19), 169(GEN), 185(18), 186(GEN), 187(18,19).  
2. THE SUMMARY OF ALL NAVAREA XII MESSAGES IN FORCE AS OF 12 DEC 2002 IS GIVEN IN SEC III OF NM 52/02. WARNINGS ISSUED DURING THE SUBSEQUENT QUARTERS ARE SUMMARIZED IN NM 13/03.  
3. CANCEL NAVAREA XII 182/03. (261020Z JUL 2003)

189/03. CANCELED.

190/03(19). NORTH PACIFIC. HAWAII. MISSILES.  
1. INTERMITTENT MISSILE FIRING OPERATIONS 0001Z TO 2400Z DAILY MONDAY THRU SUNDAY IN THE PACIFIC MISSILE RANGE FACILITY, HAWAIIAN AREA, BARKING SANDS, KAUAI. THE MAJORITY OF MISSILE FIRINGS TAKE PLACE 1600Z TO 0400Z DAILY MONDAY THRU FRIDAY. THE PACIFIC MISSILE RANGE FACILITY HAWAIIAN AREA (W188) IS BOUND BY:  
A. 22-00.0N 159-51.0W.  
B. 22-00.0N 160-00.0W THENCE CCW THREE MILES FROM  
C. 22-02.7N 160-09.1W. NIIHAU/LEHUA.  
D. 22-03.0N 160-21.0W.  
E. 22-05.0N 161-35.0W THENCE CW 100 MILES FROM  
F. 22-02.4N 159-47.3W. BARKING SANDS TACAN.  
G. 22-45.0N 161-25.0W.  
H. 22-56.0N 161-49.0W THENCE CW 125 MILES FROM  
I. 22-02.4N 159-47.3W. BARKING SANDS TACAN.  
J. 23-57.0N 160-41.0W.  
K. 25-41.0N 161-36.0W THENCE CW 240 MILES FROM  
L. 22-02.4N 159-47.3W. BARKING SANDS TACAN.  
M. 25-47.0N 158-15.0W.  
N. 23-54.0N 158-15.0W.  
O. 22-20.0N 159-09.0W THENCE CCW 25 MILES FROM  
P. 21-58.1N 159-20.5W. LIHUE VORTAC.  
Q. 22-13.0N 159-42.0W THENCE CCW THREE MILES AND PARALLEL TO THE SHORELINE OF KAUAI.  
R. 22-00.0N 159-51.0W.  
2. VESSELS MAY BE REQUESTED TO ALTER COURSE WITHIN THE ABOVE AREA DUE TO FIRING OPERATIONS AND ARE REQUESTED TO CONTACT "MISSILE RANGE BARKING SANDS" ON 2182 KHZ, 4491 USB OR 156.8 MHZ (CHANNEL 16) BEFORE ENTERING THE ABOVE BOUNDARIES. IF UNABLE TO CONTACT THE PACIFIC MISSILE RANGE FACILITY PRIOR TO ENTERING OR WHILE IN THE WARNING AREA, RELAY MESSAGES THROUGH U.S. COAST GUARD HONOLULU.  
3. VESSELS INBOUND AND OUTBOUND FOR HAWAIIAN PORTS WILL CREATE THE LEAST INTERFERENCE TO FIRING OPERATIONS AS WELL AS ENHANCE THE VESSEL'S SAFETY BY PASSING SOUTH OF THE ISLANDS OF KAUAI AND NIIHAU DURING SPECIFIED TIMES.  
4. CANCEL NAVAREA XII 166/03. (280750Z JUL 2003)

- 191/03(GEN). GPS SATELLITE SYSTEM.  
 1. PRN 10 UNUSABLE 010315Z TO 011515Z AUG.  
 2. CANCEL THIS MSG 011615Z AUG.

(281345Z JUL 2003)

192/03. CANCELED.

- 193/03(GEN). MARITIME SAFETY INFORMATION DIVISION WEBSITE.  
 1. NIMA MARITIME SAFETY INFORMATION DIVISION WEBSITE INTERMITTENTLY UNUSABLE 311600Z TO 311800Z JUL. FOR URGENT SERVICE CONTACT NIMA NAVSAFETY DSN: 287 3149, COMM: 1 800 362 6289 OR 301 227 3149, E-MAIL: NAVSAFETY@NIMA.MIL OR MSG TO NIMA NAVSAFETY BETHESDA MD.  
 2. CANCEL THIS MSG 311900Z JUL.

(281917Z JUL 2003)

194/03. CANCELED.

- 195/03(18). EASTERN NORTH PACIFIC. MISSILES.  
 1. INTERMITTENT MISSILE FIRING OPERATIONS 0001Z TO 2359Z DAILY MONDAY THRU SUNDAY IN THE NAVAL AIR WARFARE CENTER SEA RANGE. THE MAJORITY OF MISSILE FIRINGS TAKE PLACE 1400Z TO 2359Z AND 0001Z TO 0200Z DAILY MONDAY THRU FRIDAY. THE SEA RANGE IS BOUND AS FOLLOWS:  
 A. 34-02N 119-04W. M. THENCE THREE NAUTICAL MILES FROM AND PARALLEL TO THE SHORELINE.  
 B. 33-52N 119-06W. N. 34-24N 120-30W.  
 C. 33-29N 119-07W. O. 34-08N 120-26W.  
 D. 33-29N 118-37W. P. 34-08N 119-40W.  
 E. 33-20N 118-37W. Q. 34-00N 119-40W.  
 F. 32-11N 120-16W. R. 34-06N 119-13W.  
 G. 31-54N 121-35W. S. 34-06N 119-11W.  
 H. 35-09N 123-39W. T. 34-07N 119-10W.  
 I. 35-29N 123-00W. U. 34-07N 119-07W.  
 J. 35-04N 122-43W. V. 34-04N 119-04W.  
 K. 35-57N 121-32W. L. 34-59N 120-42W.  
 2. VESSELS MAY BE REQUESTED TO ALTER COURSE WITHIN THE ABOVE AREA DUE TO FIRING OPERATIONS AND ARE REQUESTED TO CONTACT PLEAD CONTROL ON 5081.5 KHZ (5080 KHZ) OR 3238.5 KHZ (3237 KHZ) SECONDARY OR 156.8 MHZ (CH 16) OR 127.55 MHZ BEFORE ENTERING THE ABOVE BOUNDARIES AND MAINTAIN CONTINUOUS GUARD WHILE WITHIN THE RANGE.  
 3. VESSELS INBOUND AND OUTBOUND FOR SOUTHERN CALIFORNIA PORTS WILL CREATE THE LEAST INTERFERENCE TO FIRING OPERATIONS DURING THE SPECIFIC PERIODS, AS WELL AS ENHANCE THE VESSEL'S SAFETY WHEN PASSING THROUGH THE VICINITY OF THE SEA RANGE. IF THEY WILL TRANSIT VIA THE SANTA BARBARA CHANNEL AND WITHIN NINE MILES OFFSHORE VICINITY OF POINT MUGU OR CROSS THE AREA SOUTHWEST OF SAN NICOLAS ISLAND BETWEEN SUNSET AND SUNRISE.  
 4. CANCEL NAVAREA XII 185/03.

(310955Z JUL 2003)

## HYDROPACS

Messages in force 311200Z July 2003:

2001 series	100(29)	787(73)	1101(GEN)	1226(83)	1294(63)
1647(GEN)	167(95)	801(72)	1105(61)	1227(74)	1295(95)
1976(62)	197(71)	880(63)	1106(61)	1228(63)	1296(94,95)
2002 series	207(62)	895(62)	1110(61)	1230(97)	1297(95)
146(62)	445(96)	932(62)	1119(71)	1235(81)	1300(61)
205(GEN)	495(62)	940(71)	1133(71)	1240(63)	1301(61)
206(GEN)	496(62)	960(63)	1134(71)	1248(63)	1302(94,95)
207(93)	506(62)	992(62)	1135(96)	1249(94)	1303(94,95)
352(73)	515(73)	993(62)	1147(81)	1258(81)	1304(94,95)
403(72,73)	525(73,74)	998(71)	1167(83)	1266(73)	1305(71)
637(75)	570(62)	1010(63)	1171(62)	1267(73)	1307(GEN)
828(62)	638(62)	1027(81)	1174(83)	1270(62)	1309(GEN)
1765(71)	647(74)	1031(62)	1175(83)	1272(81)	1311(63)
2191(22)	649(71,93)	1036(81)	1183(61)	1275(97)	1313(96)
2199(63)	667(62)	1041(71)	1187(61)	1277(GEN)	1314(63)
2277(GEN)	743(62)	1047(76,83)	1197(61,62)	1280(63)	1315(63)
2330(62)	744(29)	1057(81)	1198(92)	1284(23,29)	1316(95,96)
2339(63)	760(63)	1063(91)	1213(73)	1286(GEN)	1317(63)
2402(22)	761(63)	1091(61)	1220(62)	1287(72,92)	1318(63)
2003 series	777(62)	1099(94,95)	1222(62)	1293(97)	1321(91)

The summary of all HYDROPACS in force as of 12 December 2002 is given in Section III of NM 52/02. Warnings issued during the subsequent quarters are issued in NM 13/03 and 26/03.

**HYDROPAC WARNINGS issued from 241200Z to 311200Z July 2003.**

1274/03. CANCELED.

1275/03(97). NORTH PACIFIC.

DISTRESS SIGNAL RECEIVED ON 121.5 MHZ IN  
27-58-26N 140-19-26E AT 241146Z JUL.  
VESSELS IN VICINITY REQUESTED TO KEEP  
A SHARP LOOKOUT, ASSIST IF POSSIBLE.  
REPORTS TO JAPAN COAST GUARD.

(241350Z JUL 2003)

1276/03. CANCELED.

1277/03(GEN). GPS SATELLITE SYSTEM.  
PRN 29 UNUSABLE.

(250455Z JUL 2003)

1278/03 and 1279/03. CANCELED.

1280/03(63). INDIA-WEST COAST. HAZARDOUS OPERATIONS.

1. HAZARDOUS OPERATIONS 0330Z TO 1530Z DAILY 29 JUL AND 01 AUG  
IN AREA BOUND BY 09-57.6N 075-59.5E, 09-57.7N 076-14.2E,  
09-40.0N 076-14.5E, 09-42.5N 076-09.5E.  
2. CANCEL THIS MSG 011630Z AUG.

(251320Z JUL 2003)

1281/03 thru 1283/03. CANCELED.

1284/03(23,29). SOUTH ATLANTIC. ANTARCTICA. ICE.

1. ICEBERGS REPORTED ON 25 JUL:

A. A-38A, 22 MILES BY 48 MILES IN 58-42S 046-18W.  
B. A-38B, 22 MILES BY 25 MILES IN 58-12S 047-48W.  
C. A-38C, SEVEN MILES BY 11 MILES IN 57-18S 044-42W.  
D. A-38D, TWO MILES BY TEN MILES IN 59-30S 050-30W.  
E. A-43C, 24 MILES BY 41 MILES IN 58-36S 031-54W.  
F. A-43I, TWO MILES BY 12 MILES IN 59-12S 035-48W.  
G. A-48, NINE MILES BY TEN MILES IN 59-24S 043-24W.  
H. A-49, ONE MILE BY TEN MILES IN 63-06S 052-00W.  
I. A-50, ONE MILE BY TEN MILES IN 59-00S 050-30W.

3. CANCEL THIS MSG 02 AUG.

(260300Z JUL 2003)

1285/03. CANCELED.

1286/03(GEN).

1. HYDROPAC MESSAGES IN FORCE 261000Z JUL 2003. ONLY THOSE MESSAGES ISSUED DURING THE LAST SIX WEEKS ARE LISTED HEREIN. 2003 SERIES: 1027(81), 1031(62), 1036(81), 1041(71), 1047(76,83), 1057(81), 1063(91), 1091(61), 1094(95), 1095(94,95), 1096(95), 1097(94,95), 1098(94,95), 1099(94,95), 1101(GEN), 1105(61), 1106(61), 1110(61), 1119(71), 1133(71), 1134(71), 1135(96), 1141(63), 1147(81), 1150(63), 1167(83), 1171(62), 1174(83), 1175(83), 1183(61), 1187(61), 1197(61,62), 1198(92), 1213(73), 1220(62), 1222(62), 1226(83), 1227(74), 1228(63), 1230(97), 1235(81), 1240(63), 1248(63), 1249(94), 1258(81), 1266(73), 1267(73), 1268(83), 1269(93), 1270(62), 1271(GEN), 1272(81), 1274(96), 1275(97), 1276(96), 1277(GEN), 1278(61), 1279(63), 1280(63), 1281(63), 1284(23,29), 1285(83).
2. THE SUMMARY OF ALL HYDROPAC MESSAGES IN FORCE AS OF 12 DEC 2002 IS GIVEN IN SEC III OF NM 52/02. WARNINGS ISSUED DURING THE SUBSEQUENT QUARTERS ARE SUMMARIZED IN NM 13/03.
3. CANCEL HYDROPAC 985/03, 1004/03, 1007/03, 1018/03, 1024/03, 1069/03, 1252/03, 1265/03, 1283/03.

(261050Z JUL 2003)

1287/03(72,92). CELEBES SEA.

1. SEISMIC SURVEY 31 JUL THRU 20 AUG BY M/V VERITAS SEARCHER TOWING 3.5 MILE LONG CABLE IN AREA BETWEEN 03-00N 04-30N AND 118-10E 120-15E.
2. CANCEL THIS MSG 21 AUG.

(261120Z JUL 2003)

1288/03 thru 1292/03. CANCELED.

1293/03(97). NORTH PACIFIC. GUNNERY.

1. GUNNERY EXERCISES 2300Z TO 0900Z COMMENCING DAILY 31 JUL THRU 30 AUG IN AREA BOUND BY 27-55.3N 144-57.8E, 25-00.3N 145-35.8E, 25-25.3N 147-37.8E, 28-15.3N 146-29.8E.
2. CANCEL THIS MSG 311000Z AUG.

(271030Z JUL 2003)

1294/03(63). BAY OF BENGAL.

1. 13 CONTAINERS ADRIFT VICINITY 18-51.9N 092-39.4E.
2. CANCEL THIS MSG 03 AUG.

(271110Z JUL 2003)

1295/03(95). SEA OF JAPAN. ORDNANCE.

1. BOMBING EXERCISES 0001Z TO 1000Z DAILY 01, 02, 04 THRU 09, 11 THRU 14, 16, 18 THRU 23 AND 25 THRU 30 AUG IN AREA BOUND BY 38-08N 129-51E, 38-08N 130-10E, 37-39N 130-10E, 37-42N 129-51E.
2. CANCEL THIS MSG 301100Z AUG.

(271157Z JUL 2003)

1296/03(94,95). YELLOW SEA. ORDNANCE.

1. BOMBING EXERCISES 0001Z TO 1000Z DAILY 01, 02, 04 THRU 09, 11 THRU 14, 16, 18 THRU 23 AND 25 THRU 30 AUG IN AREA BETWEEN 34-50N 35-15N AND 124-50E 125-42E.
2. CANCEL THIS MSG 301100Z AUG.

(271208Z JUL 2003)

1297/03(95). SEA OF JAPAN. ORDNANCE.

1. BOMBING EXERCISES 0001Z TO 1300Z DAILY 01, 02, 04 THRU 09, 11 THRU 16, 18 THRU 23 AND 25 THRU 30 AUG IN AREA BOUND BY 38-25N 128-45E, 38-25N 129-30E, 38-10N 129-30E, 38-10N 129-00E, 38-17N 129-00E, 38-17N 128-45E.
2. CANCEL THIS MSG 301400Z AUG.

(271225Z JUL 2003)

1298/03 and 1299/03. CANCELED.

1300/03(61). INDIAN OCEAN. ORDNANCE.

1. UNDERWATER ORDNANCE DETONATIONS 010001Z TO 312359Z AUG IN AREA BETWEEN 09-00S 13-00S AND 070-00E 073-00E.
2. CANCEL THIS MSG 010059Z SEP.

(280540Z JUL 2003)

## SECTION III

NM 33/03

- 1301/03(61). INDIAN OCEAN.  
M/V KEDAH CEMENT II DISABLED AND IN NEED OF ASSISTANCE  
VICINITY 13-31S 066-46E. VESSELS IN VICINITY REQUESTED  
TO KEEP A SHARP LOOKOUT, ASSIST IF POSSIBLE.  
REPORTS TO ANY COASTAL RADIO STATION.  
(280740Z JUL 2003)
- 1302/03(94,95). YELLOW SEA. ORDNANCE.  
1. BOMBING EXERCISES 0001Z TO 1300Z DAILY  
01, 02, 04 THRU 09, 11 THRU 14, 16,  
18 THRU 23 AND 25 THRU 30 AUG IN AREA  
BETWEEN 35-35N 36-00N AND 125-00E 125-30E.  
2. CANCEL THIS MSG 301400Z AUG.  
(281035Z JUL 2003)
- 1303/03(94,95). YELLOW SEA. ORDNANCE.  
1. BOMBING EXERCISES 0000Z TO 1000Z DAILY 01,  
02, 04 THRU 09, 11 THRU 14, 16, 18 THRU 23  
AND 25 THRU 30 AUG IN AREA BOUND BY  
36-35.0N 125-36.0E, 36-35.0N 124-50.0E,  
37-06.0N 124-50.0E, 37-10.2N 125-36.0E.  
2. CANCEL HYDROPAC 1276/03(96).  
3. CANCEL THIS MSG 301100Z AUG.  
(281040Z JUL 2003)
- 1304/03(94,95). YELLOW SEA. ORDNANCE.  
1. BOMBING EXERCISES 0001Z TO 1000Z DAILY  
01, 02, 04 THRU 09, 11 THRU 14, 16,  
18 THRU 23 AND 25 THRU 30 AUG IN AREA  
BETWEEN 36-05N 36-35N AND 124-50E 125-42E.  
2. CANCEL THIS MSG 301100Z AUG.  
(281045Z JUL 2003)
- 1305/03(71). STRAIT OF MALACCA. GUNNERY.  
1. GUNNERY EXERCISES 0001Z TO 1601Z DAILY  
01, 02, 04 THRU 09, 11 THRU 14, 16,  
18 THRU 23 AND 25 THRU 30 AUG IN  
AREA BOUND BY 04-33N 099-48E,  
04-14N 100-17E, 04-53N 100-06E.  
2. CANCEL THIS MSG 301701Z AUG.  
(281050Z JUL 2003)
- 1306/03. CANCELED.
- 1307/03(GEN). GPS SATELLITE SYSTEM.  
1. PRN 10 UNUSABLE 010315Z TO 011515Z AUG.  
2. CANCEL THIS MSG 011615Z AUG.  
(281353Z JUL 2003)
- 1308/03. CANCELED.
- 1309/03(GEN). MARITIME SAFETY INFORMATION DIVISION WEBSITE.  
1. NIMA MARITIME SAFETY INFORMATION DIVISION WEBSITE INTERMITTENTLY  
UNUSABLE 311600Z TO 311800Z JUL. FOR URGENT SERVICE CONTACT NIMA  
NAVSAFETY DSN: 287 3149, COMM: 1 800 362 6289 OR 301 227 3149,  
E-MAIL: NAVSAFETY@NIMA.MIL OR MSG TO NIMA NAVSAFETY BETHESDA MD.  
2. CANCEL THIS MSG 311900Z JUL.  
(281921Z JUL 2003)
- 1310/03. CANCELED.
- 1311/03(63). INDIA-WEST COAST.  
1. MAN OVERBOARD FROM M/V SUVARNA SWARAJYA VICINITY  
OF TRACKLINE BETWEEN 09-30N 076-09E AT 280300Z JUL  
AND 09-59N 076-07E AT 280600Z JUL. VESSELS IN  
VICINITY REQUESTED TO KEEP A SHARP LOOKOUT, ASSIST  
IF POSSIBLE. REPORTS TO ANY COASTAL RADIO STATION.  
2. CANCEL HYDROPAC 1310/03(76), FALSE ALERT.  
(290520Z JUL 2003)
- 1312/03. CANCELED.
- 1313/03(96). SAKHALIN-EAST COAST.  
1. SEISMIC SURVEY 30 JUL THRU 30 SEP BY M/V ORIENT EXPLORER  
TOWING FOUR 5000 METER LONG CABLES IN AREA BOUND BY  
51-19N 143-34E, 51-32N 143-32E,  
51-33N 143-43E, 51-20N 143-45E.  
THREE MILE BERTH REQUESTED.  
2. CANCEL THIS MSG 01 OCT.  
(291110Z JUL 2003)

1314/03(63). INDIA-EAST COAST.

1. SEISMIC SURVEY 30 JUL THRU 30 AUG  
BY M/V C-EXPLORER TOWING 3000 METER  
LONG CABLE IN AREA BOUND BY 17-39N 083-18E,  
17-23N 083-27E, 17-32N 083-36E,  
17-45N 083-27E. WIDE BERTH REQUESTED.
2. CANCEL HYDROPAC 1141/03.
3. CANCEL THIS MSG 31 AUG.

(291700Z JUL 2003)

1315/03(63). INDIA-WEST COAST. HAZARDOUS OPERATIONS.

1. HAZARDOUS OPERATIONS 0230Z TO 1130Z DAILY 01 THRU 07 AUG  
WITHIN 25 MILES OF 14-01.0N 074-19.6E.
2. CANCEL THIS MSG 071230Z AUG.

(291740Z JUL 2003)

1316/03(95,96). SEA OF JAPAN. MISSILES.

1. HAZARDOUS OPERATIONS 2300Z TO 0200Z COMMENCING  
DAILY 03 AND 04 AUG AND 0400Z TO 0700Z DAILY  
04 AND 05 AUG IN AREA BOUND BY  
42-20.0N 131-41.0E, 42-40.0N 131-41.0E,  
42-38.5N 132-15.0E, 42-20.0N 132-15.0E.
2. CANCEL THIS MSG 050800Z AUG.

(291800Z JUL 2003)

1317/03(63). INDIA-WEST COAST. HAZARDOUS OPERATIONS.

1. HAZARDOUS OPERATIONS 0230Z TO 1230Z DAILY 01 THRU 07 AUG  
IN AREA BETWEEN 15-11N 15-13N AND 073-52E 073-57E.
2. CANCEL THIS MSG 071330Z AUG.

(300850Z JUL 2003)

1318/03(63). INDIA-NORTHEAST COAST.

1. SEISMIC SURVEY IN PROGRESS UNTIL 26 AUG BY  
M/V C-ORION TOWING SIX 5000 METER LONG CABLES  
IN AREA BOUND BY 20-11.5N 087-11.0E,  
20-14.2N 087-17.4E, 20-07.6N 087-20.2E,  
20-05.3N 087-13.8E. WIDE BERTH REQUESTED.
2. CANCEL HYDROPAC 1312/03(74), SEARCH SUSPENDED.
3. CANCEL HYDROPAC 1150/03.
4. CANCEL THIS MSG 27 AUG.

(300910Z JUL 2003)

1319/03 and 1320/03. CANCELED.

1321/03(91). NORTH PACIFIC. HAZARDOUS OPERATIONS.

1. HAZARDOUS OPERATIONS 030200Z TO 031400Z AUG  
WITHIN 40 MILES OF 16-00N 127-00E.
2. CANCEL THIS MSG 031500Z AUG.

(311020Z JUL 2003)

### MARAD ADVISORIES

MARAD ADVISORIES rapidly disseminate information on government policy, danger and safety issues pertaining to vessel operations and other timely maritime matters. They are periodically issued by the U.S. Maritime Administration (MARAD) to vessel masters, operators, and other U.S. maritime interests.

The text of all in-force MARAD ADVISORIES may be obtained by accessing the NIMA Maritime Safety Information website ([http://164.214.12.145/warn/warn\\_j\\_query.html](http://164.214.12.145/warn/warn_j_query.html)), by referring to Section I (paragraph 50) of US Notice to Mariners 1/03 for those in-force as of 19 December 2002, or by contacting the Maritime Administration Office of Ship Operations, Code MAR-613, Room 2123, 400 Seventh Street S.W., Washington DC 20590, Telephone (202) 366-5735, FAX (202) 366-3954, TLX II 710-822-9426 (MARAD DOT WSH).

MARAD ADVISORIES in force 31 July 2003: 00-7, 01-1, 01-7, 02-2, 02-5, 02-7 and 03-4.

### SPECIAL WARNINGS

SPECIAL WARNINGS, primarily intended to announce official government proclamations affecting shipping, are broadcast as needed. They are numbered consecutively and further promulgated in the Notice to Mariners.

The text of all in-force SPECIAL WARNINGS may be obtained by accessing the NIMA Maritime Safety Information website ([http://164.214.12.145/warn/warn\\_j\\_query.html](http://164.214.12.145/warn/warn_j_query.html)) or by referring to Section I (paragraph 7) of US Notice to Mariners 1/03 for those in-force as of 19 December 2002 and in Notice to Mariners 14/03.

SPECIAL WARNINGS in force 31 July 2003: 1, 29, 77, 81, 82, 89, 92, 95, 107, 108, 111, 113, 114, 115, 116, 117, 118, 119, 120 and 121.

**MARINE INFORMATION****NEW EDITION OF LIST OF LIGHTS**

Pub. 111, 2003 Edition, List of Lights, Radio Aids and Fog Signals for the West Coasts of North and South America (excluding continental U.S.A. and Hawaii), Australia, Tasmania, New Zealand, and the Islands of the North and South Pacific Oceans, is ready for issue.

This edition contains information available to the National Imagery and Mapping Agency (NIMA) up to 21 June 2003, including Notice to Mariners No. 25 of 2003.

Corrections subsequent to the above effective date, up to and including Notice to Mariners No. 33 of 2003, are contained in Section II of this Notice.

In the interval between new editions, corrective information affecting this publication will be published in the Notice to Mariners and must be applied in order to keep this publication current.

Note: Copies of the above publication may be obtained from the Government Printing Office (GPO).

## MARINE INFORMATION REPORT AND SUGGESTION SHEET INSTRUCTIONS

We value your suggestions to improve our products. The Marine Information Report and Suggestion Sheet is provided for users to submit corrective information. Please be complete and accurate in your description/suggestion and include the information as detailed below:

**Observer:** name(s) of person(s) making observation and rank, rate or title.

**Ship/Organization:** name of vessel or organization.

**Address:** complete mailing address. Also include telephone number, fax, and/or e-mail address, if available, in case clarification is required.

**Date of Observation:** day, month and year at which the observation was made.

**Time of Observation:** local time at which the observation was made.

**Latitude/Longitude:** exact position of the observation expressed as accurately as possible.

**Datum:** horizontal datum to which the observed position is referred (e.g. WGS, NAD83, local foreign datum, etc.).

**Navigation System:** method used to determine the position of the observation (e.g. radar, GPS, Loran, etc.).

Include details about the equipment used, if deemed pertinent.

**Verified by Navigator:** indicate whether observation was verified by navigator.

**Product(s) Affected:** product number(s) and/or name(s) to which the observation applies (e.g. Chart 62400, Sailing Directions Pub. 127, etc.).

**Edition:** edition number and/or year of affected product.

**Latest correction applied:** the latest Notice to Mariners to which your copy of affected product has been corrected.

**Sounding sensor or method used:** equipment or method used to collect soundings. When reporting soundings, please provide an annotated echogram, if available, for verification.

**Soundings corrected for draft:** indicate whether soundings have been corrected for vessel's draft. If not, please include observed draft along with the details of information reported.

**Details of Information Reported:** use this space to provide details of the observation/suggestion. When referring to a charted feature, please describe it exactly as it appears on the chart. When referring to a publication, please indicate page number(s) and line number(s) or station number(s) as applicable. Use additional sheets as necessary and include diagrams, photocopies of the product(s) involved and/or photographs to describe observations in greater detail. If possible, include the designation, point of contact, telephone number, fax number and/or e-mail address of the local port authority to enable NIMA to update our records and obtain additional or later information.

**User Feedback:** use this space to provide feedback and suggestions for improving NIMA's products and services.

Please detach, fold and mail the pre-addressed form and include any other relevant material or supporting information.

Reports which present an immediate hazard to navigation should be sent to the nearest NAVAREA Coordinator via coast radio stations. In general, these hazards would include major aids to navigation anomalies, discovery of obstructions or shoals with depths of less than 30 meters, floating dangers to shipping, and any situation deemed critical to safety of life at sea. For further information consult Notice to Mariners No. 1, paragraph 44 (Worldwide Navigational Warnings Service).

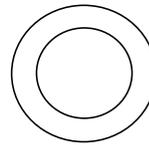
Due to the large volume of information received, NIMA cannot acknowledge receipt of every report. Some reports containing useful data are filed for use in the compilation of the next edition of the affected product. Others confirm or clarify previously reported information. Echogram traces are digitized and become part of NIMA's Bathymetric Data Base. Acknowledgment is made by inclusion in the Observer's List of the Notice to Mariners (page ii), or in some cases by letter from the Agency involved.

For additional information about various Hydrographic Reports, consult The American Practical Navigator (Chapter 30).





**MARITIME SAFETY INFORMATION DIVISION  
ST D44  
NATIONAL IMAGERY AND MAPPING AGENCY  
4600 SANGAMORE ROAD  
BETHESDA MD 20816-5003**



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**ARCTIC MARITIME SAFETY INFORMATION REPORT SHEET**

Observer \_\_\_\_\_

Ship/Organization \_\_\_\_\_

Phone \_\_\_\_\_ Email Address \_\_\_\_\_

Describe Hazard (e.g. dredge, buoy, current meter, operations): \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Depth water column is occupied (e.g. "bottom to surface", "surface to 500m"): \_\_\_\_\_

\_\_\_\_\_

Date of Insertion \_\_\_\_\_ Date of Removal \_\_\_\_\_

If observed, Date \_\_\_\_\_ Time (Local) \_\_\_\_\_

Latitude \_\_\_\_\_ Longitude \_\_\_\_\_ Datum \_\_\_\_\_

Navigation System \_\_\_\_\_ Verified by Navigator: Yes \_\_\_\_\_ No \_\_\_\_\_

Sounding sensor or method used \_\_\_\_\_

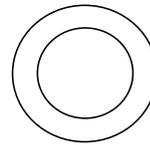
Sounding(s) corrected for draft: Yes \_\_\_\_\_ No \_\_\_\_\_

Details of Information Reported (continue on additional sheets as necessary): \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

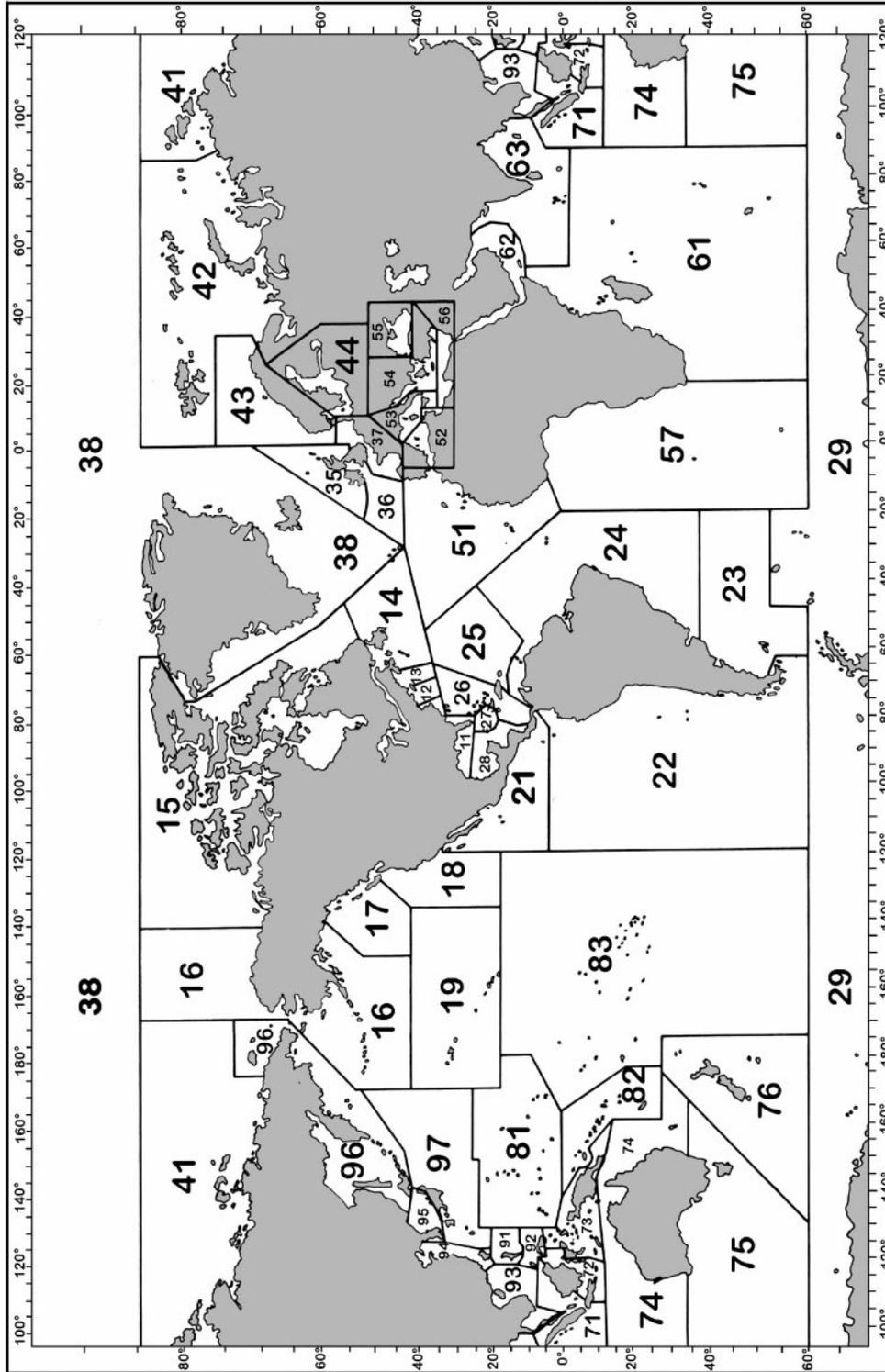


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# GEOGRAPHIC LOCATOR



For chart numbering purposes, the world is divided into nine regions, each corresponding to the geographic limits of one of the nine regions in the NIMA Catalog of Maps, Charts, and Related Products, Part 2-Hydrographic Products, Volume 1. Each Region is further subdivided into the numbered Subregions in the above graphic. The first two digits of all five-digit chart numbers indicate the geographic subregion to which the chart pertains. Users can locate corrections in this Notice for charts of their immediate interest by determining the two-digit Subregion number of the pertinent geographic area, and then turning to the page or pages that list the chart numbers beginning with those two digits.

AFTER 5 DAYS RETURN TO

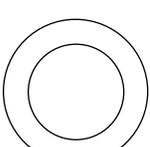
DEFENSE SUPPLY CENTER RICHMOND

ATTN: JNAH

8000 JEFFERSON DAVIS HIGHWAY  
RICHMOND, VIRGINIA 23297-5338

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NAVIGATIONAL INFORMATION  
TIME—DATED



**NOTICE TO  
MARINERS**

**PLEASE EXPEDITE DELIVERY**